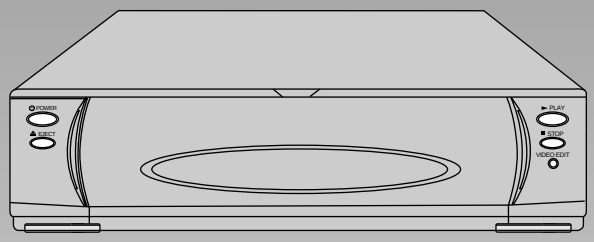
VIDEO CASSETTE RECORDER

SV-717X/715X/700XK/617X/615X
SV-717B/617B/615B
SV-717F/617F
SV-615G/B160B/B140G
SVR-715/615

SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (DX7-A/AC, DX8-A/AC ⟶ AC68-20392A).

VIDEO CASSETTE RECORDER



SV-717X/715X/700XK/717B/717F
SV-B160B/SVR-715

SV-617X/615X
SV-617B/615B
SV-617F/615G
SV-B140G/SVR-615

CONTENTS

1. Precautions
2. Reference Information
3. Product Specifications and Comparison Chart
4. Disassembly and Reassembly
5. Alignment and Adjustment
6. Exploded View and Parts List
7. Electrical Parts List
8. Block Diagrams
9. PCB Diagrams
10. Wiring Diagram
11. Schematic Diagrams

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AC68-20403A

1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all pretective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known erath ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

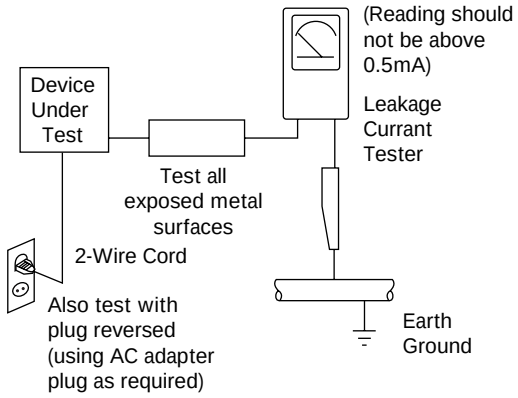

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the *X-ray protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling sny semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

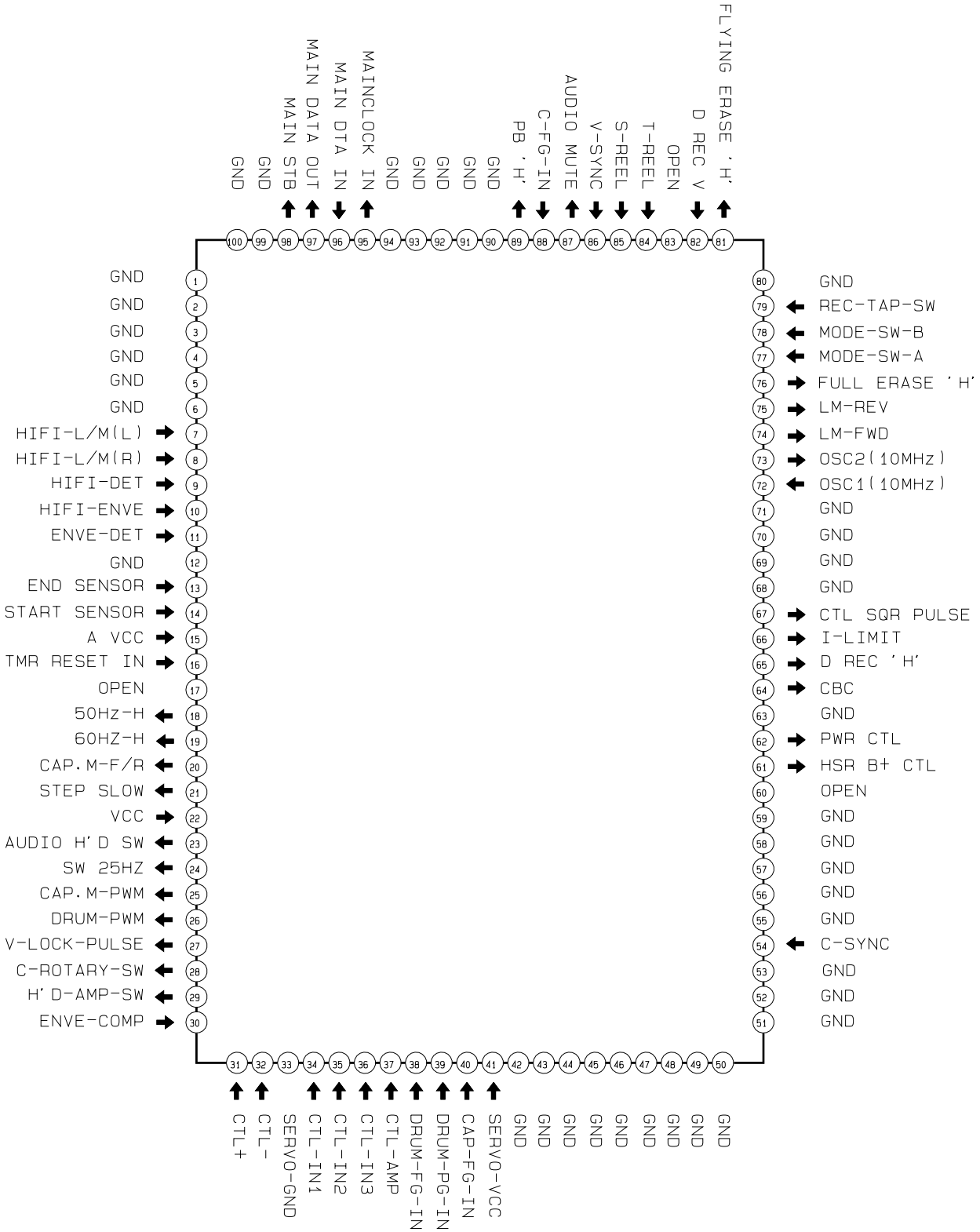
20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (or).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

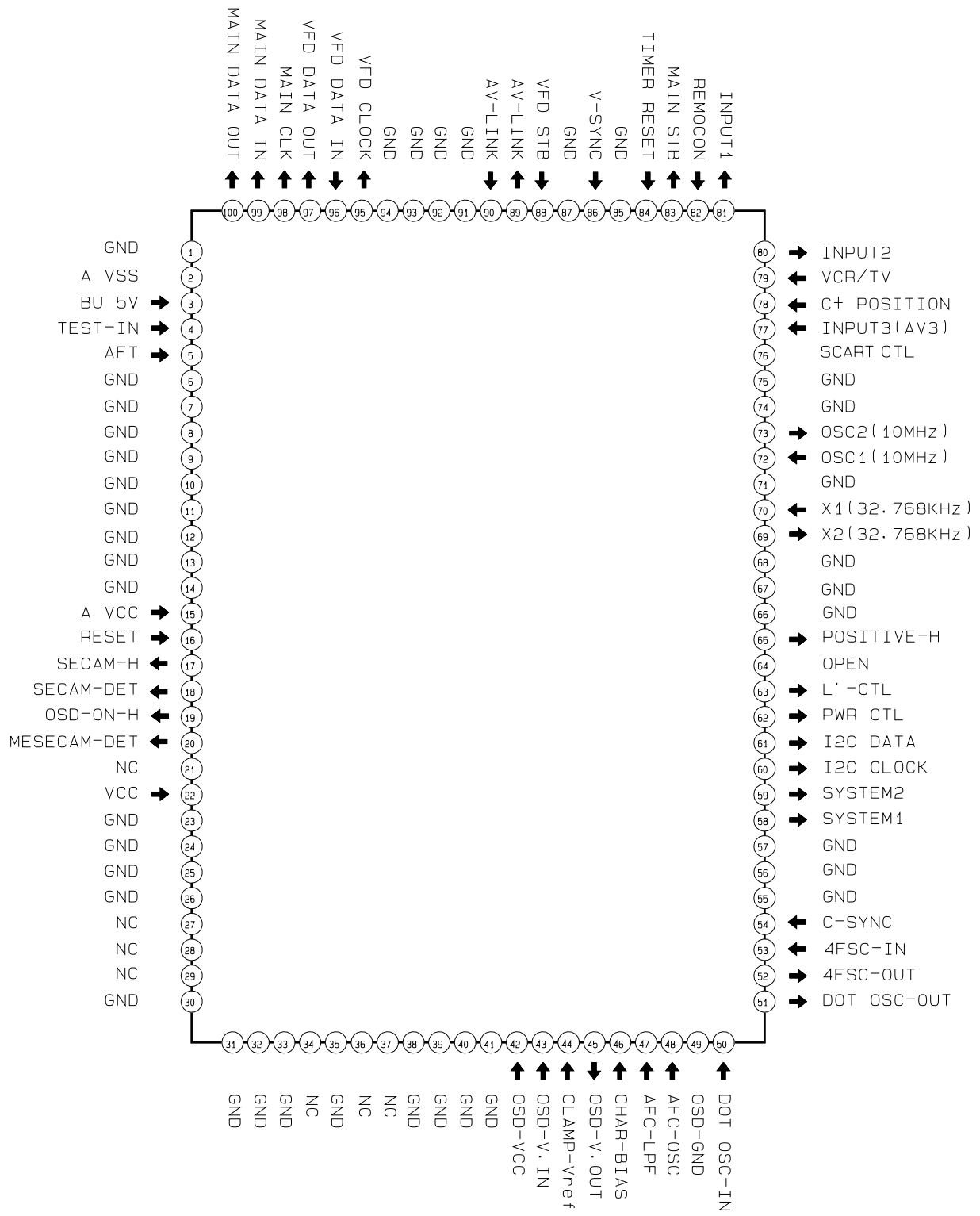
2. Reference Information

2-1 IC BLOCK

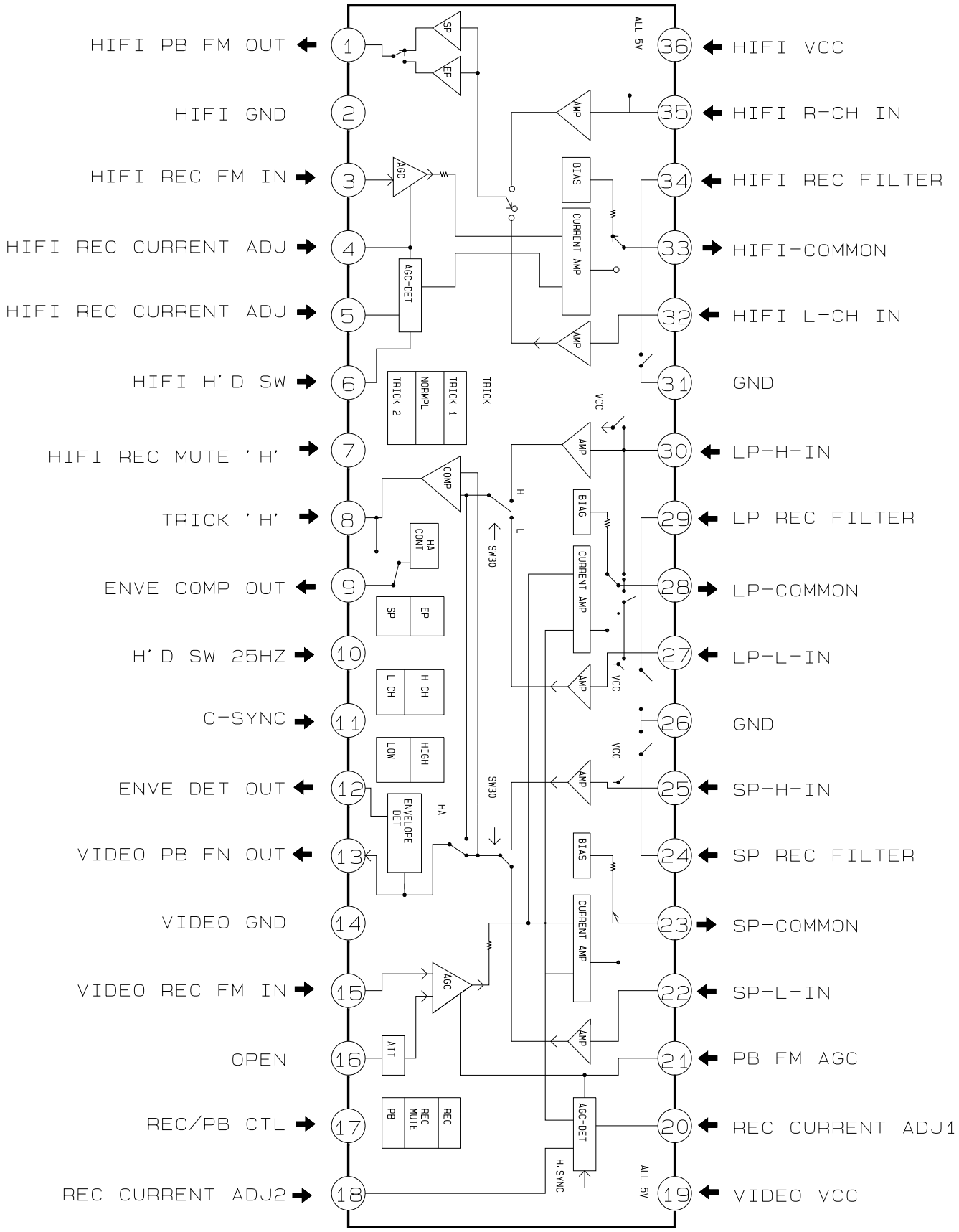
2-1-1 IC601 (HD6473977)



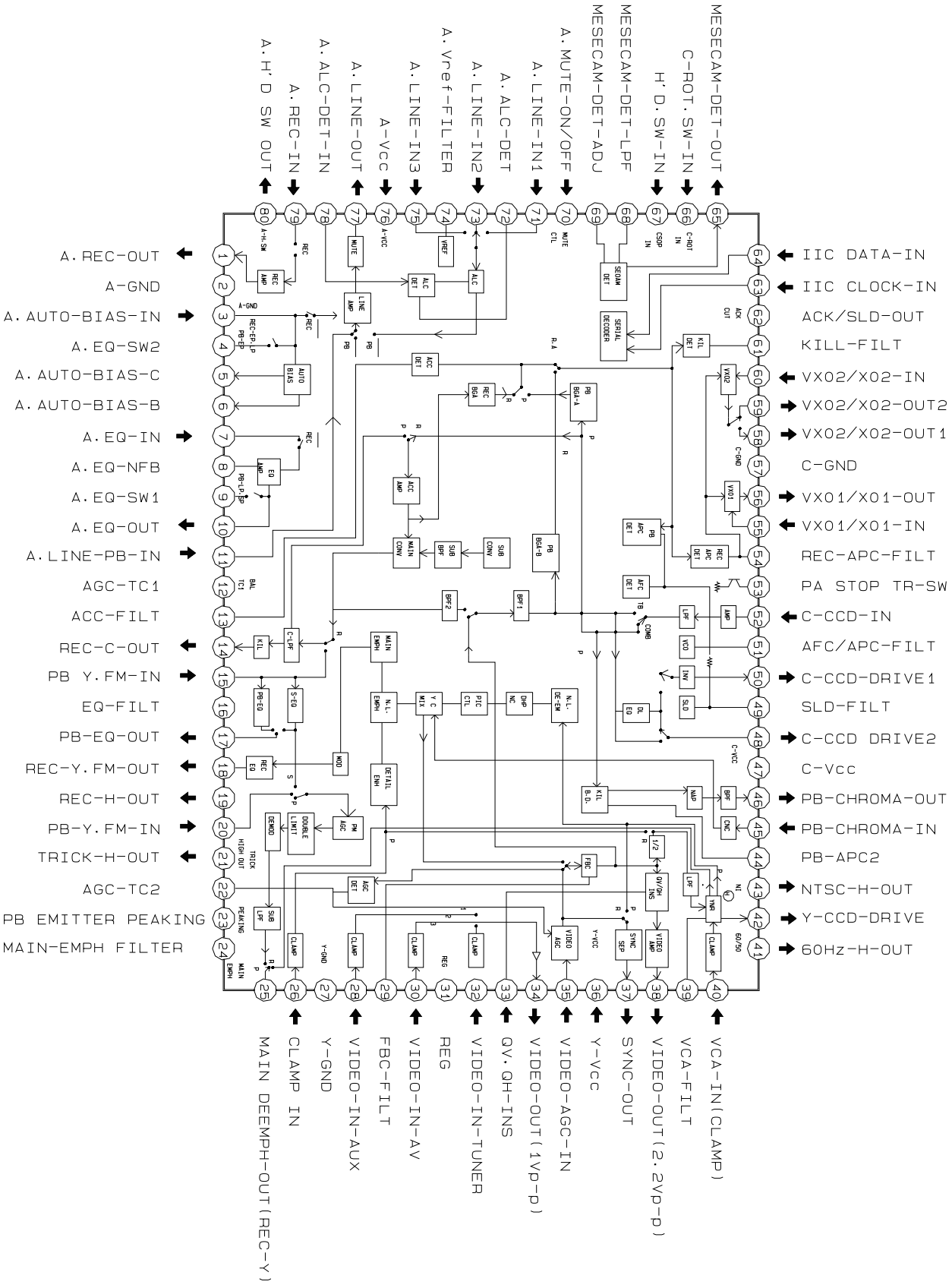
2-1-2 IC602 (HD6473977)



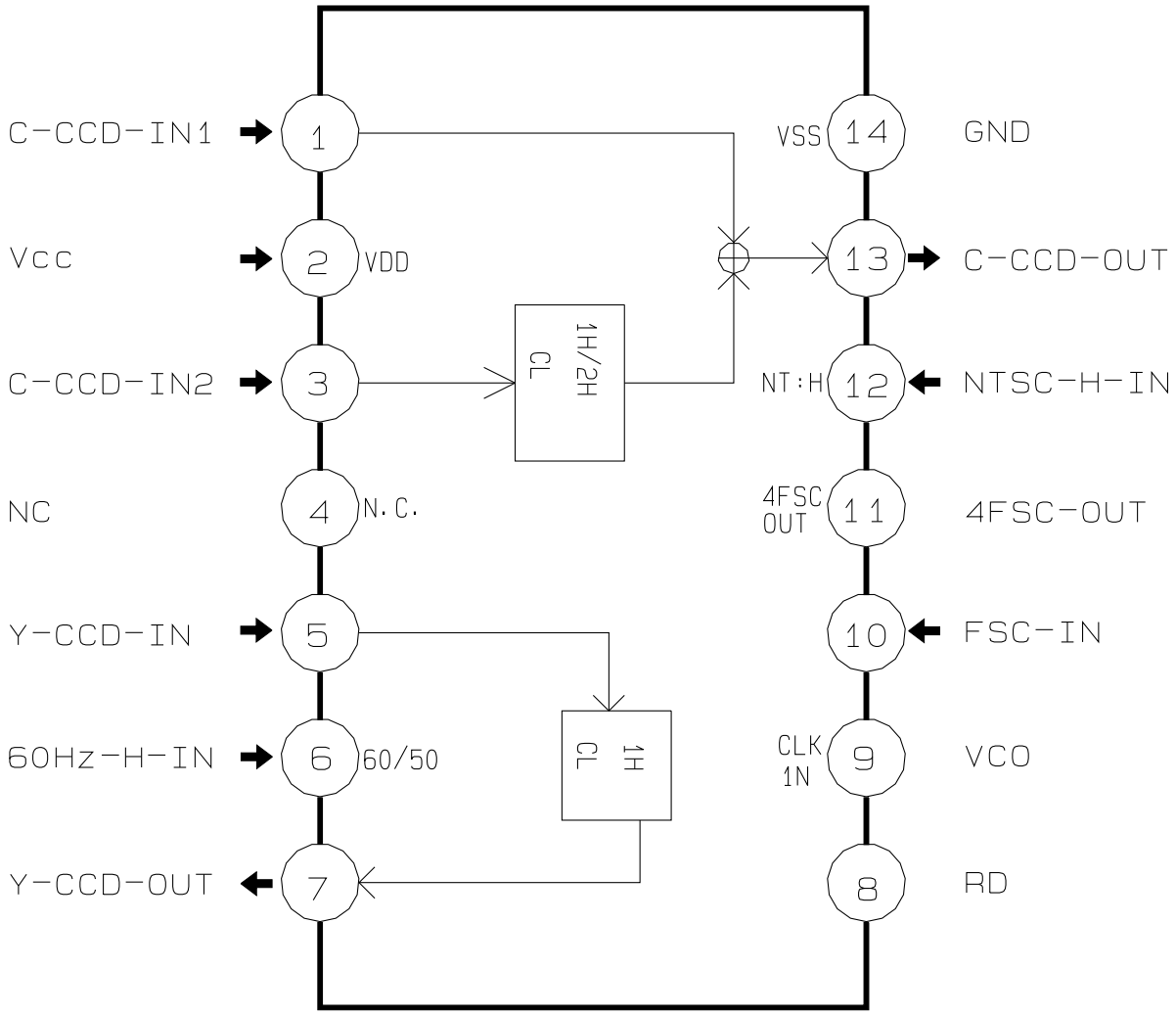
2-1-3 IC3P01 (LA70020)



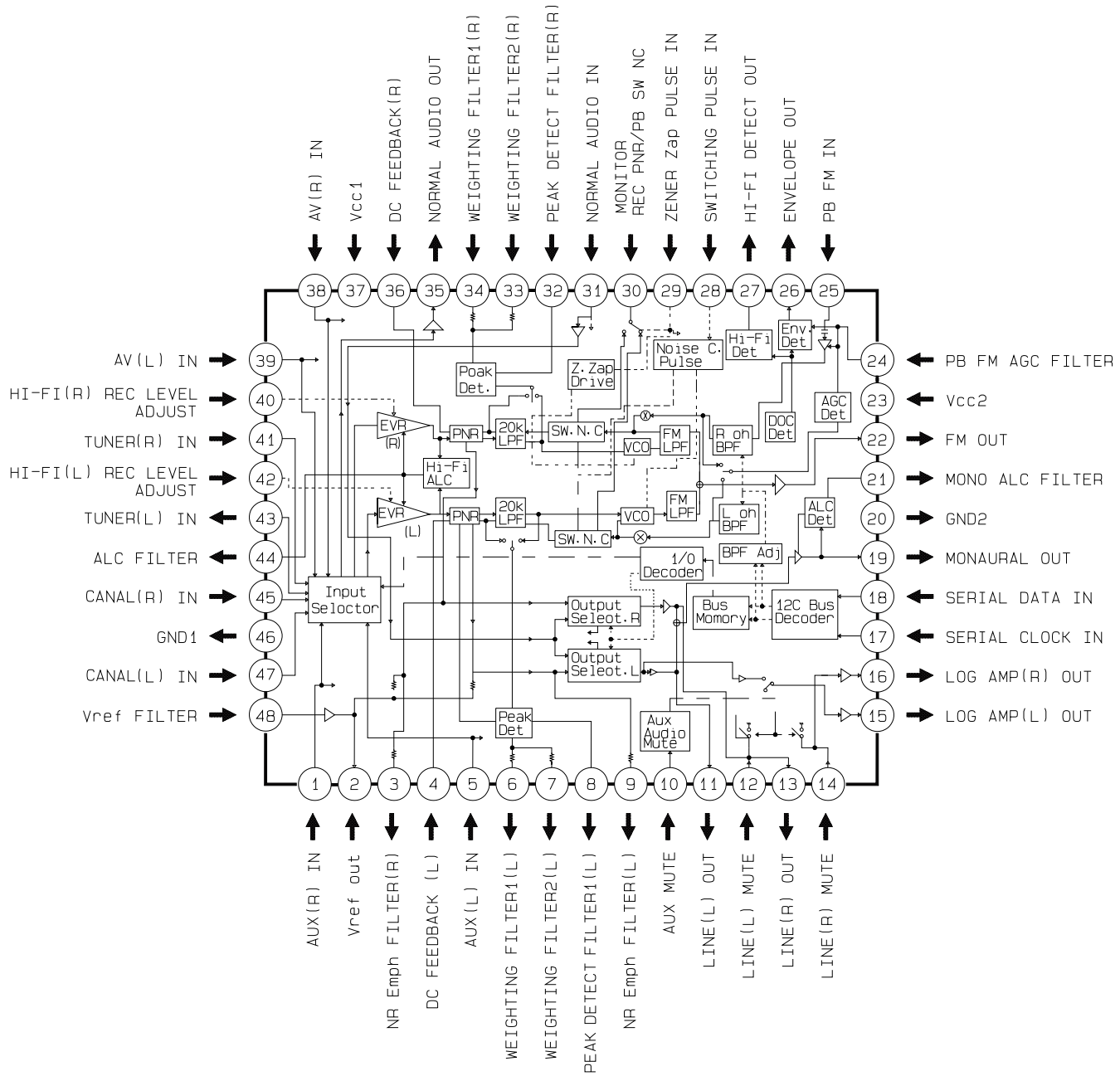
2-1-4 IC301 (SS11511M/SS11501M)



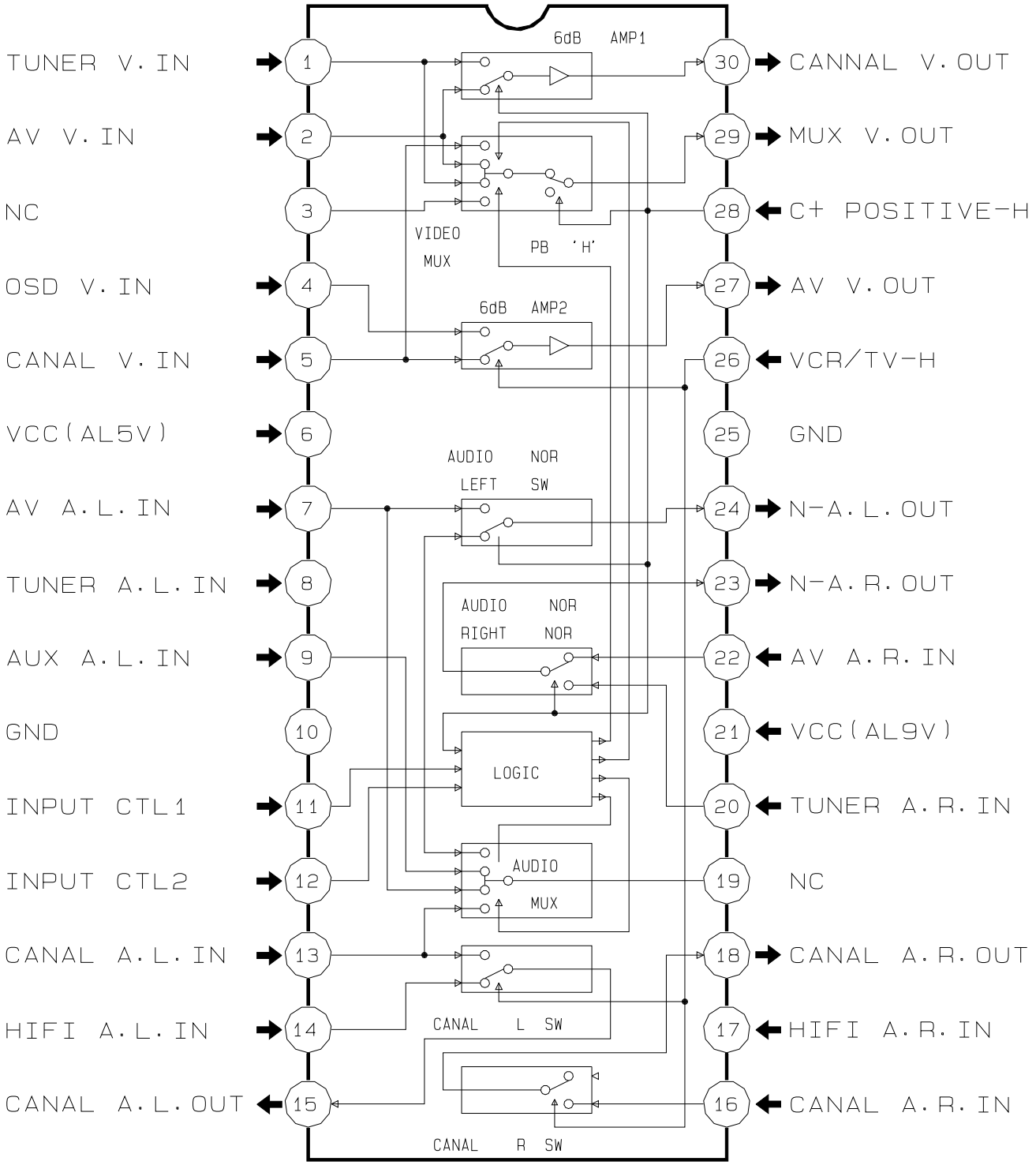
2-1-5 IC303 (SS23377M/SS23378M)



2-1-6 IC501 (TA1246F)



2-1-7 IC801 (KA8119)



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3. Product Specifications and Comparison Chart

3-1 Product Specifications

Design and specifications are subject to change without notice.

Operation	Description
Format	VHS PAL standard (except middle east asia : VHS PAL/NTSC standard)
Heads	Video : 4 rotary heads Hi-Fi audio : 2 rotary heads Audio/Control : 1 stationary head Erase : 1 full track erase head, Flying erase : 1 rotary head
Receiving channel	VHF-I, VHF-III, UHF, Hyperband
Television system	Standard B/G (for German & West Europe) Standard B/G, L'L (for France) Standard B/G, D/K (for East Europe & Middle East Asia) Standard I (for U.K), Standard I/I (for South Africa) Standard B/B (for Australia)
Recording system	
Luminance	FM azimuth recording
Colour	PAL (NTSC/MESECAM) : Down converted subcarrier phase shifted direct recording SECAM : 1/4 counted down subcarrier direct recording NTSC PB on PAL TV
Tape speed	SP : 23.39 mm/sec, LP : 11.69 mm/sec
Recording/playback time	SP : 3 hours (E-180 Tape), LP : 6 hours (E-180 Tape)
F.F/REW time	About 100 ~ 190 sec in REW/F.F with E-180 tape
VIDEO	
Input Output Signal-to-noise ratio Horizontal resolution	0.5 to 2.0 Vp-p : 75 ohm unbalanced 1.0 ± 0.2 Vp-p : 75 ohm unbalanced Better than 43 dB (SP) More than 240 lines (SP)
Audio	
Input Output Wow and flutter (WTD) Signal-to-noise ratio Frequency response	-8 dBm, 47 Kohm unbalanced -8 ± 3 dBm, 1 Kohm unbalanced 0.4% max (SP) Hi-Fi : 68dB min (IHF A filter), Mono : 42 dB min (IHF filter) Hi-Fi : 20Hz ~ 20KHz, Mono : 100Hz ~ 8KHz
Power requirement	230V or 100 ~ 240V (AC 50/60 Hz)
Power consumption	Approx. 21 watts
Operation temperature	41°F ~ 104°F (5°C ~ 40°C)
Operation humidity	10%-75%
Weight	4.4 Kg (net)
Dimensions (W x H x D)	380 x 90.5 x 310 mm

3-2 Comparison Chart

COUNTRY	MODEL	HEADS	A2	NICAM	S/VIEW	V/PLUS	VPS	PDC	CANAL+	P/MIERE	VCR/TV	DIAMOND HEAD (DLC)
GERMANY	SV-717X	7	O	X	S/DLX	X	O	O	X	O	O	O
	SV-617X	6	O	O	S/DLX	X	O	O	X	O	O	X
	SV-615X	6	O	X	O	X	O	O	X	O	O	X
FRANCE	SV-717F	7	O	O	S/DLX	X	O	O	O	X	O	O
	SV-617F	6	O	O	S/DLX	X	O	O	O	X	O	X
U.K	SV-717B	7	X	O	X	V/DLX	O	O	X	X	X	O
	SV-617B	6	X	O	X	V/DLX	O	O	X	X	O	X
	SV-615B	6	X	O	X	O	P	P	X	X	O	X
SPAIN	SV-715X	7	O	O	X	O	O	O	O	X	O	O
	SV-615X	6	O	O	O	X	O	O	O	X	O	X
ITALY	SV-715X	7	O	X	O	X	O	O	O	X	O	O
	SV-615X	6	O	X	O	X	O	O	O	X	O	X
PORTUGAL	SV-715X	7	O	O	O	X	O	O	O	X	O	O
	SV-615X	6	O	O	O	X	O	O	O	X	O	X
SWEDEN/NORWAY FINLAND	SV-700XK	7	O	O	O	X	O	O	X	O	O	O
	SV-615X	6	O	O	O	X	O	O	X	O	O	X
SWITZERLAND	SV-715X	7	O	X	O	X	O	O	X	O	O	O
	SV-615X	6	O	X	O	X	O	O	X	O	O	X
AUSTRIA	SV-700XK	7	O	X	O	X	O	O	X	O	O	O
	SV-615X	6	O	X	O	X	O	O	X	O	O	X
GREECE	SV-715X	7	O	X	O	X	O	O	X	O	O	O
	SV-615X	6	O	X	O	X	O	O	X	O	O	X
NETHERLANDS	SV-715X	7	O	O	O	X	O	O	O	X	O	O
	SV-615X	6	O	X	O	X	O	O	O	X	O	X
BELGIUM	SV-715X	7	O	O	O	X	O	O	O	X	O	O
	SV-615X	6	O	O	O	X	O	O	O	X	O	X
DENMARK	SV-715X	7	O	O	O	X	O	O	X	O	O	O
	SV-615X	6	O	O	O	X	O	O	X	O	O	X
CIS	SVR-715	7	X	X	O	X	X	X	X	X	X	O
	SVR-615	6	X	X	X	X	X	X	X	X	X	O
RUSSIS	SVR-715	6	X	X	O	X	X	X	X	X	X	O
	SVR-615	6	X	X	X	X	X	X	X	X	X	O
AUSTRALIA	SV-B160B	6	O	X	X	G-CODE	X	X	X	X	X	O
CROATIA	SV-615X	6	O	X	O	X	O	O	X	O	O	O
SOLOVENIA	SV-615X	6	O	X	O	X	O	O	X	O	O	O
CZECH.	SV-615G	6	O	O	O	X	O	O	X	X	X	O
HUNGARY	SV-615G	6	O	O	O	X	O	O	X	X	X	O
POLAND	SV-615G	6	O	O	O	X	O	O	X	X	X	O
BULGARIA	SV-615G	6	O	O	O	X	O	O	X	X	X	O
ROMANIA	SV-615G	6	O	O	O	X	O	O	X	X	X	O
ISRAEL	SV-B140G	6	X	X	X	X	X	X	X	X	X	O

4. Disassembly and Reassembly

4-1 Cabinet Assembly

Note : Disassemble in the order shown.
Reassemble in reverse order.

4-1-1 Cabinet Top removal

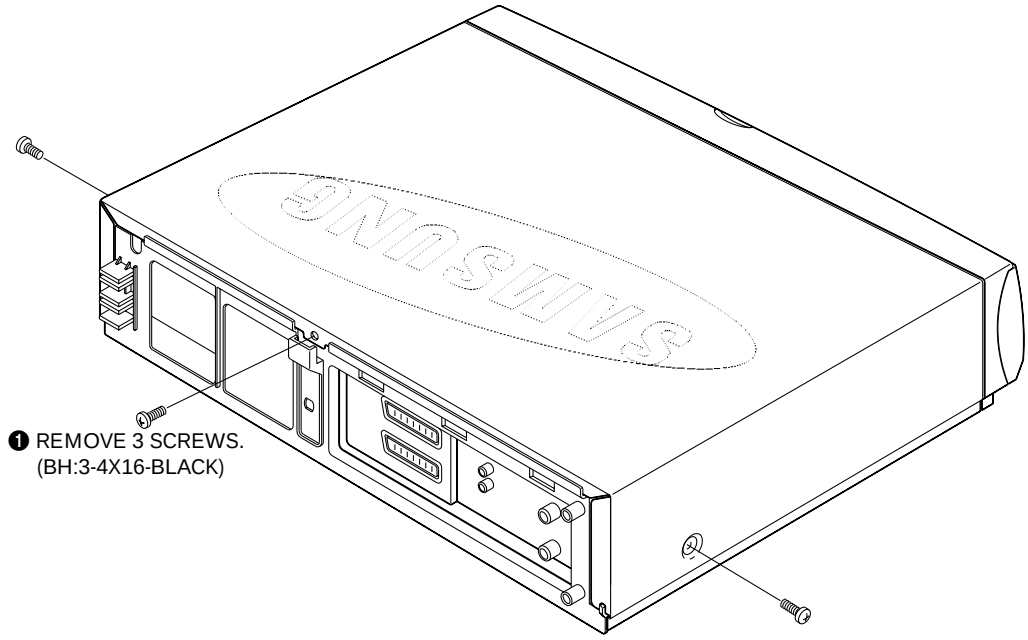


Fig. 4-1 Cabinet Top removal

4-1-2 Bottom cover removal

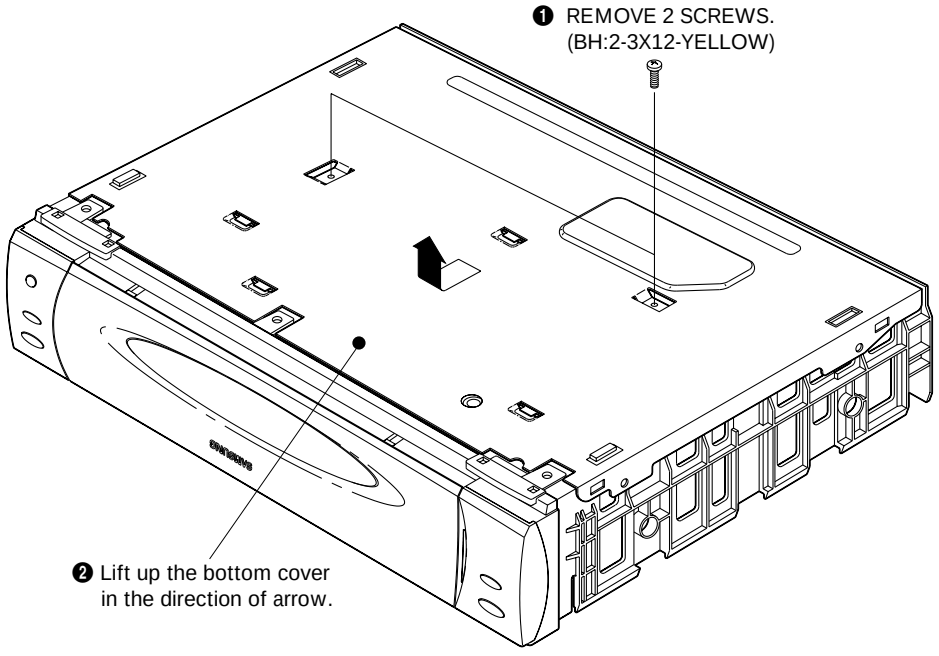
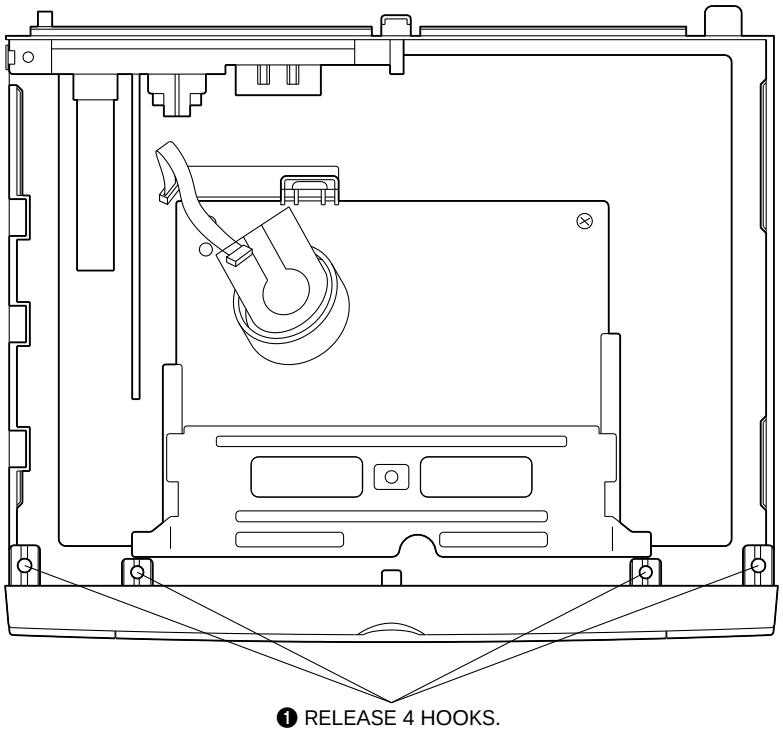
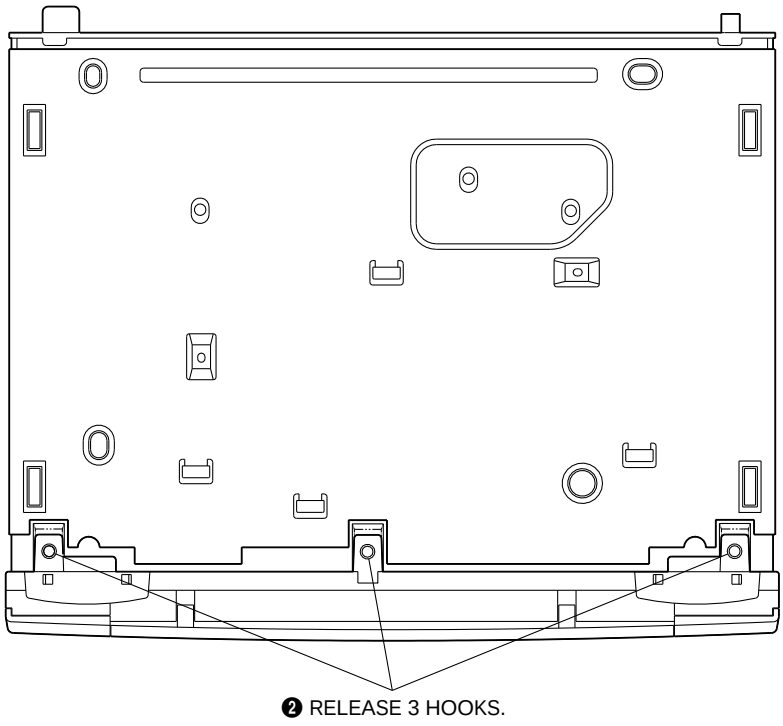


Fig. 4-2 Bottom Cover removal

4-1-3 Ass'y Front Panel removal



(Top view)



(Bottom view)

Fig. 4-3 Ass'y Front Panel removal

4-1-4 Ass'y Function-Timer removal

Note : Take extreme care not to damage the PCB when removing it.

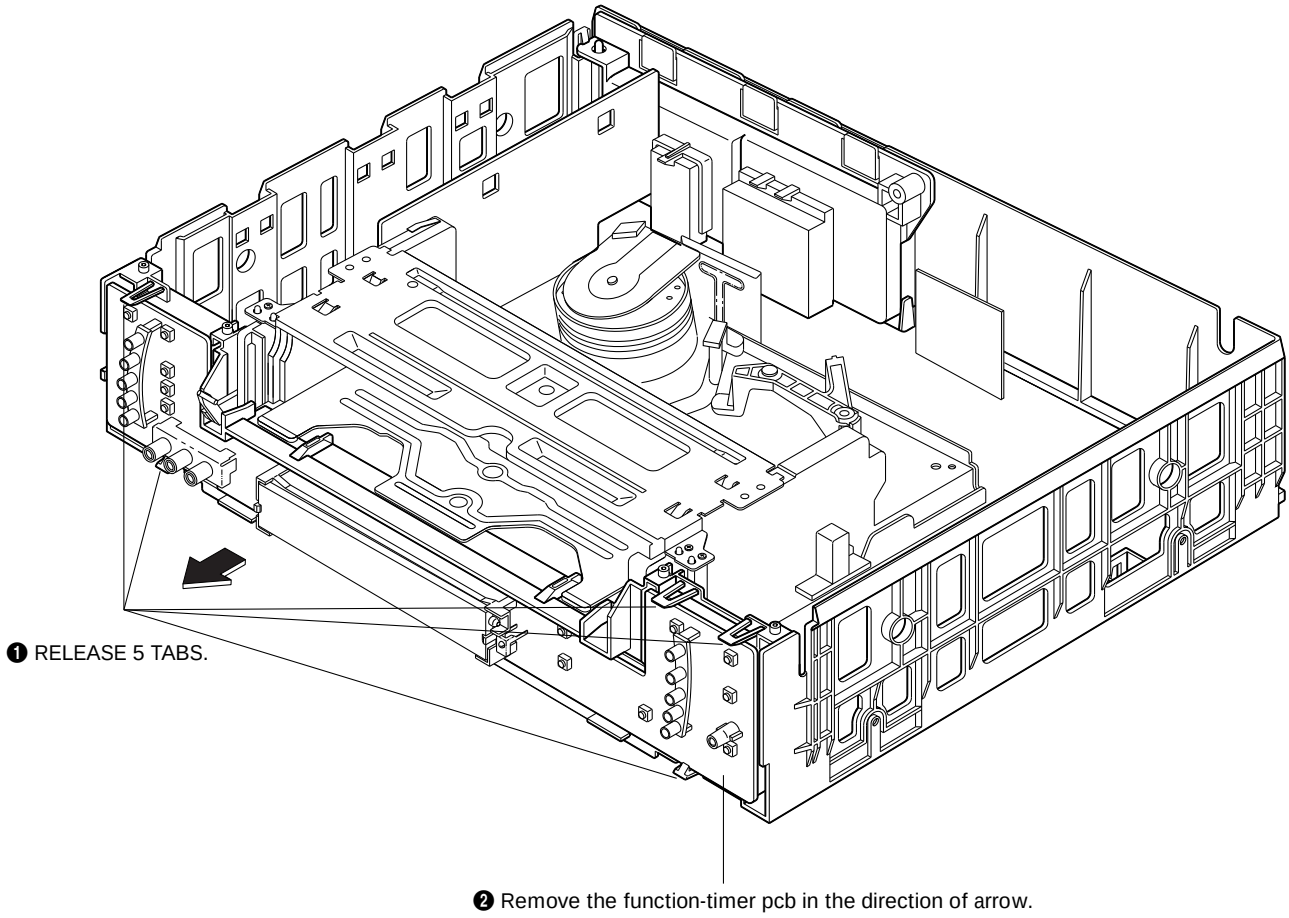


Fig. 4-4 Ass'y Function-Timer removal

4-1-5 Chassis removal

Note : 1. When removing chassis, take extreme care not to damage the main PCB front.
2. When reinstalling the deck on the main PCB, take extreme care not to damage the sensor.

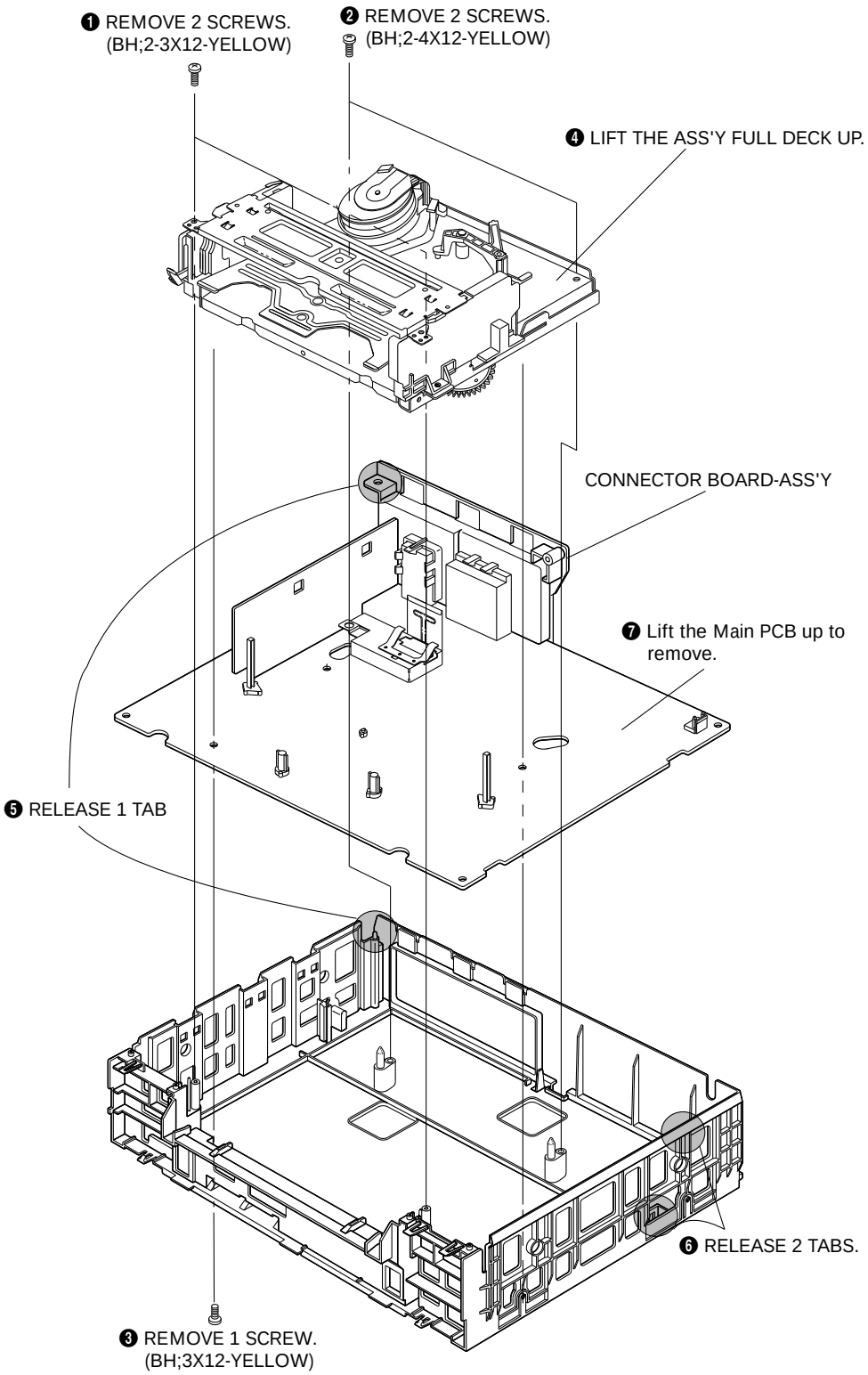


Fig. 4-5 Chassis Removal

4-2 Circuit Board Locations

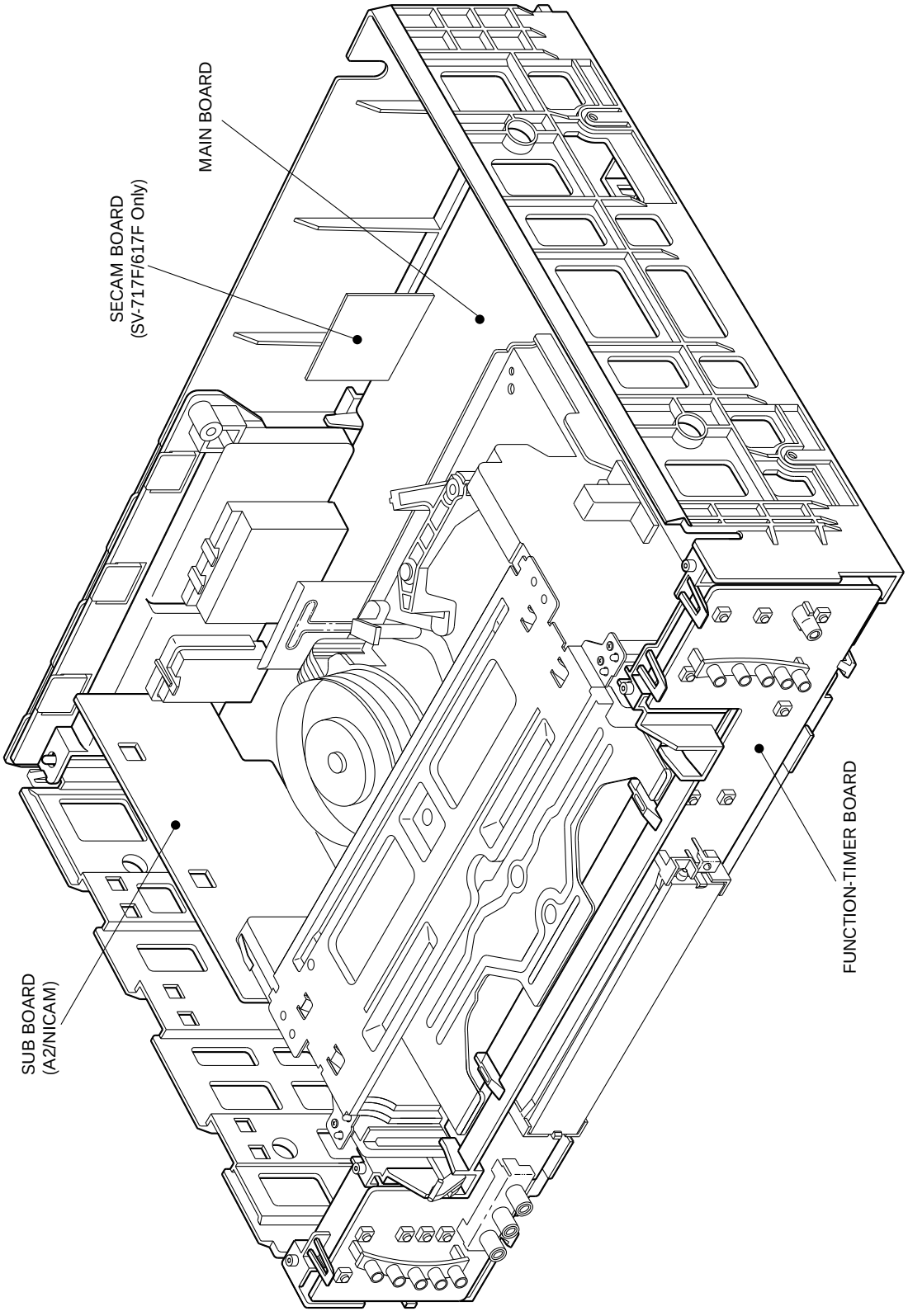


Fig. 4-6 Circuit Board Locations

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5. Alignment and Adjustment

Note : After replacing the ass'y full deck, the ass'y main, the cylinder ass'y and the micom(IC601), the remote control ass'y can be used to adjust the "X-point (tracking center) adjustment" and "Head S/W point" adjustment.

5-1 Reference

5-1-1 The type of remote control ass'y

1. Remote control ass'y (AC93-10039Y/69099-633-252) is specified as a service jig in the service manual of X-5/X-6(DX5-R/DX5-RC/DX6-R/DX6-RC) chassis. (See Fig. 5-1)
2. Normal remote control ass'y for X-7/X-8 (DX7-R/DX7-RC/DX8-R/DX8-RC) chassis. (See Fig. 5-2)

5-1-2 How to identify between normal remote control ass'y and multi remote control ass'y for X-7/X-8 chassis (See Fig. 5-2)

1. The color of some buttons related to TV function are gold.
2. Audio button is added instead of the test button hidden behind of inlay.
3. The positions of some buttons are different.

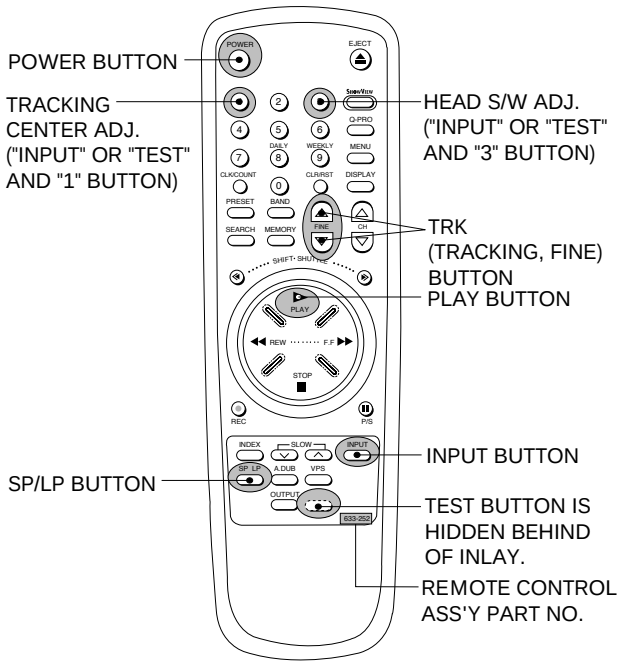

POWER BUTTON
TRACKING CENTER ADJ. ("INPUT" OR "TEST" AND "1" BUTTON)
SP/LP BUTTON
HEAD S/W ADJ. ("INPUT" OR "TEST" AND "3" BUTTON)
TRK (TRACKING, FINE) BUTTON
PLAY BUTTON
INPUT BUTTON
TEST BUTTON IS HIDDEN BEHIND OF INLAY.
REMOTE CONTROL ASS'Y PART NO.

Fig. 5-1 Remote Control Ass'y Jig for X-5/X-6 Chassis (AC93-10039Y/69099-633-252)

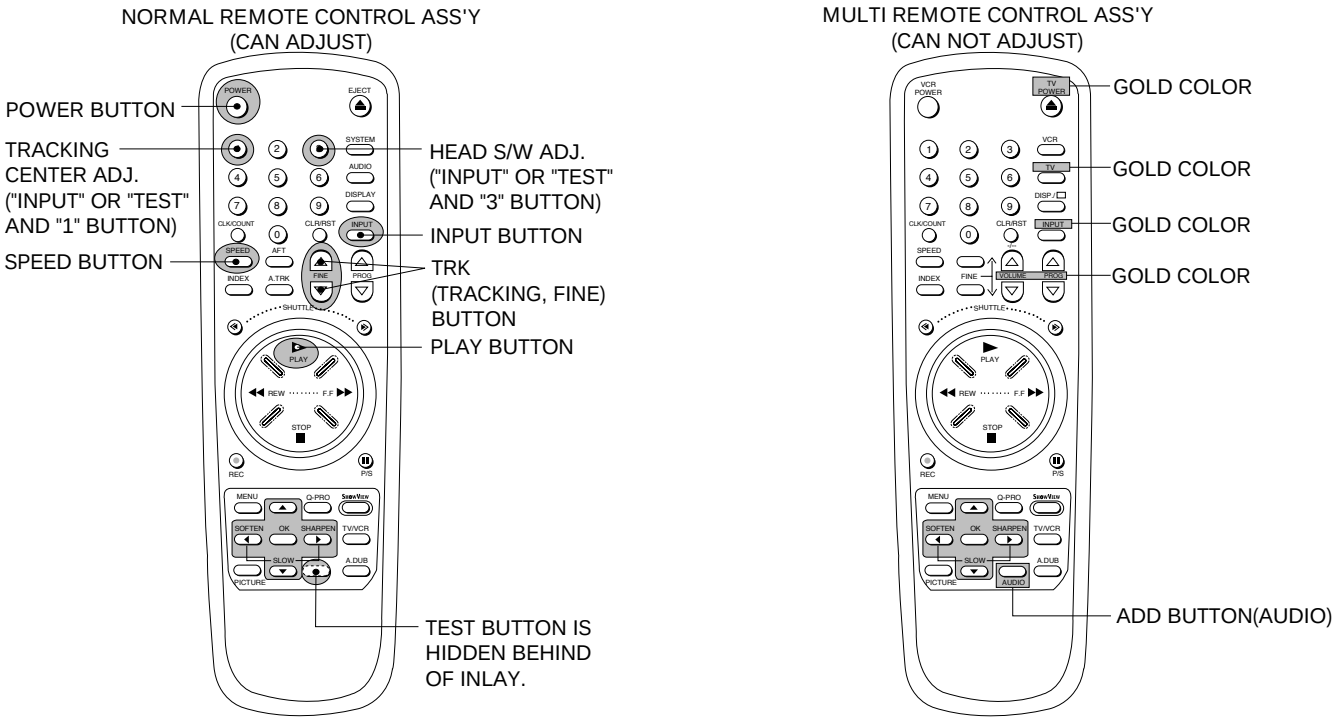

NORMAL REMOTE CONTROL ASS'Y (CAN ADJUST)
POWER BUTTON
TRACKING CENTER ADJ. ("INPUT" OR "TEST" AND "1" BUTTON)
SPEED BUTTON
HEAD S/W ADJ. ("INPUT" OR "TEST" AND "3" BUTTON)
INPUT BUTTON
TRK (TRACKING, FINE) BUTTON
PLAY BUTTON
TEST BUTTON IS HIDDEN BEHIND OF INLAY.
MULTI REMOTE CONTROL ASS'Y (CAN NOT ADJUST)
GOLD COLOR
GOLD COLOR
GOLD COLOR
GOLD COLOR
ADD BUTTON(AUDIO)

Fig. 5-2 Remote Control Ass'y for X-7/X-8 Chassis

5-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual "DX7-A/DX7-AC/DX8-A/DX8-AC (AC68-20392A)" for the adjustment and confirmation of ass'y full deck.

5-2-1 The number and position of test point

Test point : TP02 (CTL Pulse)
TP03 (H'D S/W -Trigger)
TP04 (V. Envelope)
TP05 (Audio out)

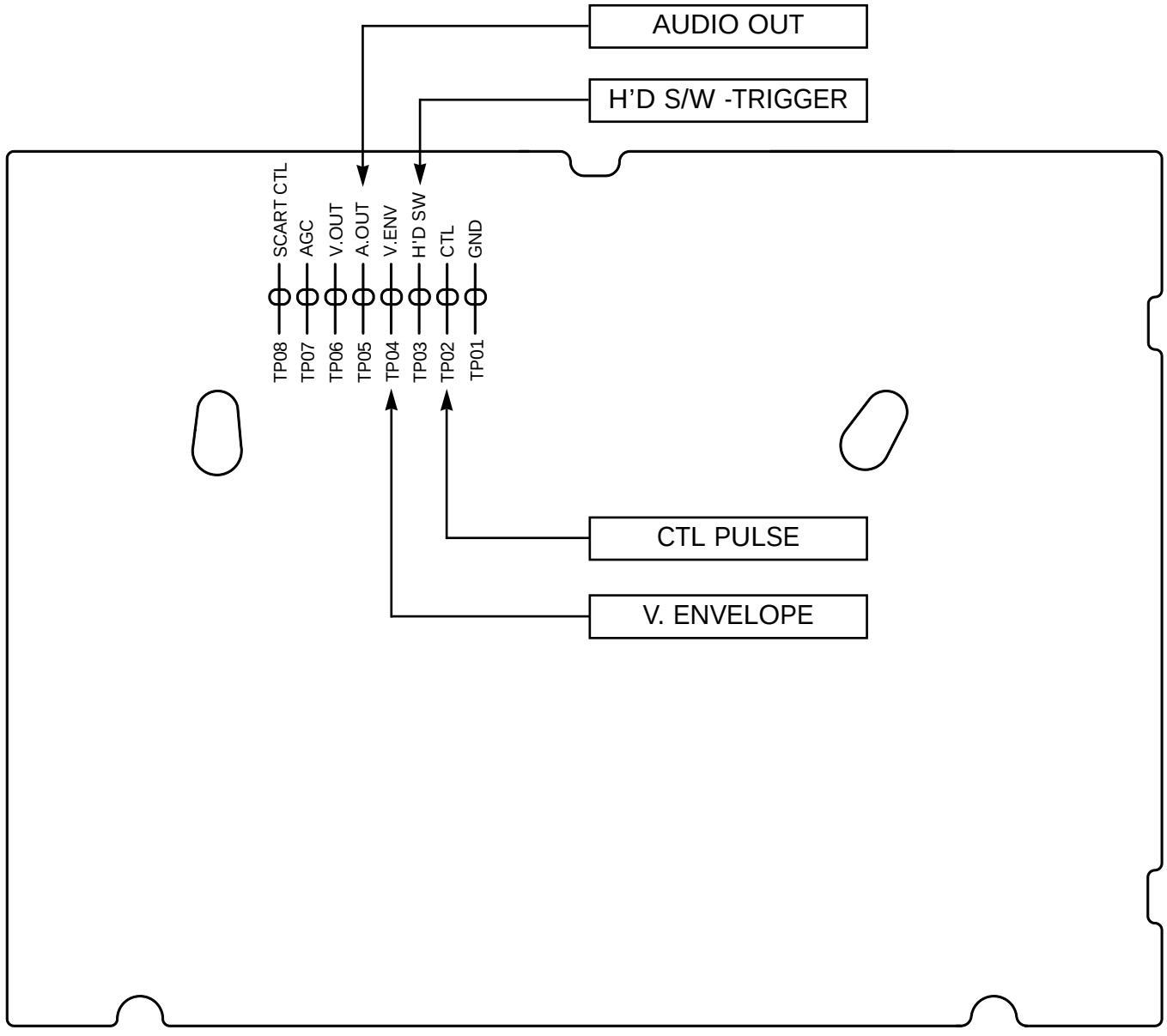


Fig. 5-3 The position of test point (Main PCB-Component side)

5-2-2 X-Point(Tracking center) adjustment (See the 2-2-1 (d) AC HEAD POSITION(X-POINT) ADJUSTMENT on page 2-3 of the mechanical manual)

5-2-2 (a) IF THE REMOTE CONTROL ASS'Y IS NOT AVAILABLE

1. Playback the colorbar alignment tape.
2. Connect CH-1 scope probe to "TP02" and CH-2 scope probe to "TP03". And then, trigger head switching pulse.
3. Set tracking preset to 11msec (2head : 2.7msec, 4, 6head : 11msec) using the "**FINE (Tracking)"** button (^) / (v) of the other remote control ass'y except the remote control ass'y jig for X-5/X-6 chassis and the normal remote control ass'y for X-7/X-8 chassis.
4. Insert the adjusting driver (+) into X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.

Note : Since the adjusting gear unit may be damaged, do not adjust by force when adjusting the X-point using the adjusting driver (+). After turn the X-point adjusting screw (D) counterclockwise a little, perform the adjustment. After adjustment is completed, tighten the screw.

<Setting of scope>
- Volt/div. : CH-1 = 0.1V, CH-2 = 0.2V
- Time/div. : 5msec

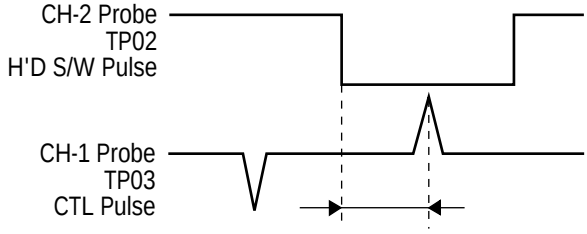


Fig. 5-4 Tracking preset adjustment

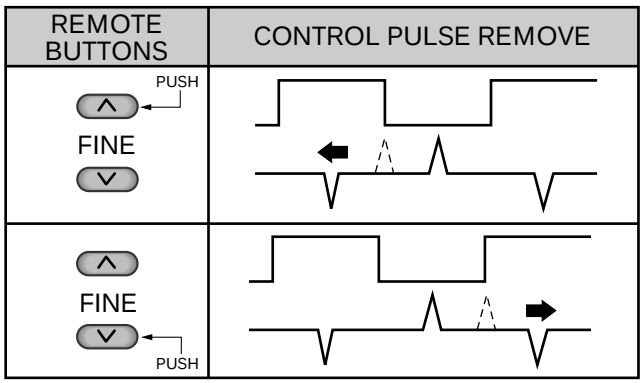


Fig. 5-5 Tracking preset adjustment

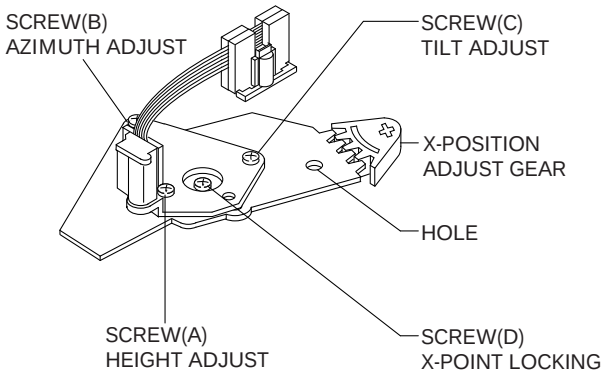


Fig. 5-6 Location of A/C Head adjustment screw

5-2-2 (b) IF THE REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

Note : How to use the "**TEST**" button.
1. Disattach the inlay of remote control ass'y. (See Fig. 5-1 and Fig. 5-2)
2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)

1. When using the "**INPUT**" button of remote control ass'y;

1) Simultaneously press the "**INPUT**" button and "**1**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking)** button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Simultaneously press the "**TEST**" button and "**5**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking)** button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

5-2-2 (b) IF THE NORMAL REMOTE CONTROL ASS'Y OF X-7/X-8(DX7-R/DX7-RC/ DX8-R/DX8-RC) CHASSIS IS AVAILABLE

Note 1 : Two kinds of remote control ass'y are used for X-7/X-8(DX7-R/DX7-RC/DX8-R/ DX8-RC) chassis.

1. One is a normal remote control ass'y, the other is a multi remote control ass'y
2. All adjustments are adjusted by normal remote control ass'y only.
3. For the identification of normal remote control ass'y and multi remote control ass'y, See page 5-1.

Note 2 : How to use the "**TEST**" button.

1. Disattach the inlay of remote control ass'y. (See Fig. 5-1 and Fig. 5-2)
2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)

1. When using the "**INPUT**" button of remote control ass'y;

1) Simultaneously press the "**INPUT**" button and "**1**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking)** button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Simultaneously press the "**TEST**" button and "**5**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking)** button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

5-3 Electrical Adjustment

5-3-1 Head S/W Adjustment

Note : Only remote control ass'y can adjust.

5-3-1 (a) IF REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

1. When using the "**INPUT**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**INPUT**" button and "**3**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After the adjustment is completed, press "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**TEST**" button and "**SP/LP**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After adjustment is completed, press the "**POWER**" button to release.

5-3-1 (b) IF NORMAL REMOTE CONTROL ASS'Y FOR X-7/X-8(DX7-R/DX7-RC/ DX8-R/DX8-RC) CHASSIS IS AVAILABLE

1. When using the "**INPUT**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**INPUT**" button and "**3**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After the adjustment is completed, press "**POWER**" button to release.

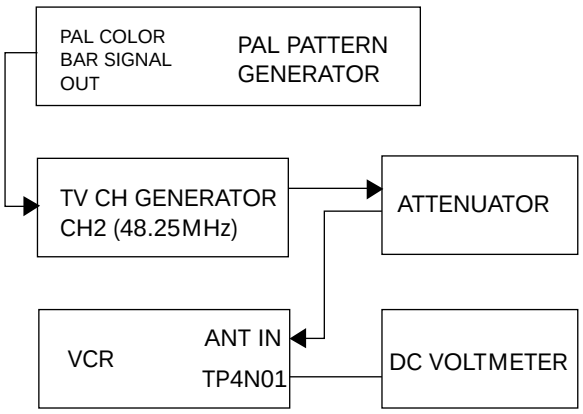
2. When using the "**TEST**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**TEST**" button and "**SPEED**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After adjustment is completed, press the "**POWER**" button to release.

5-3-2 RF AGC Adjustment (SV-717F/617F Only)

1. "E-E", (stop mode), RF signal.
2. TP4N01 and VR4L01,
 -. Apply PAL color bar signal to the video input terminal of the TV channel generator and set channel selector to CH2 (48.25 MHz).
 -. Adjust the point signal level so that the output of attenuator is 70dBu.
 -. Apply the output of attenuator to the ANT IN terminal of VCR.
 -. Set the chaneel of VCR to CH2.
 -. Conec DC voltmeter to TP4N01.
 -. Adjust VR4L01 for DC3.5 ± 0.1V.

• Composition for RF AGC Adjustment



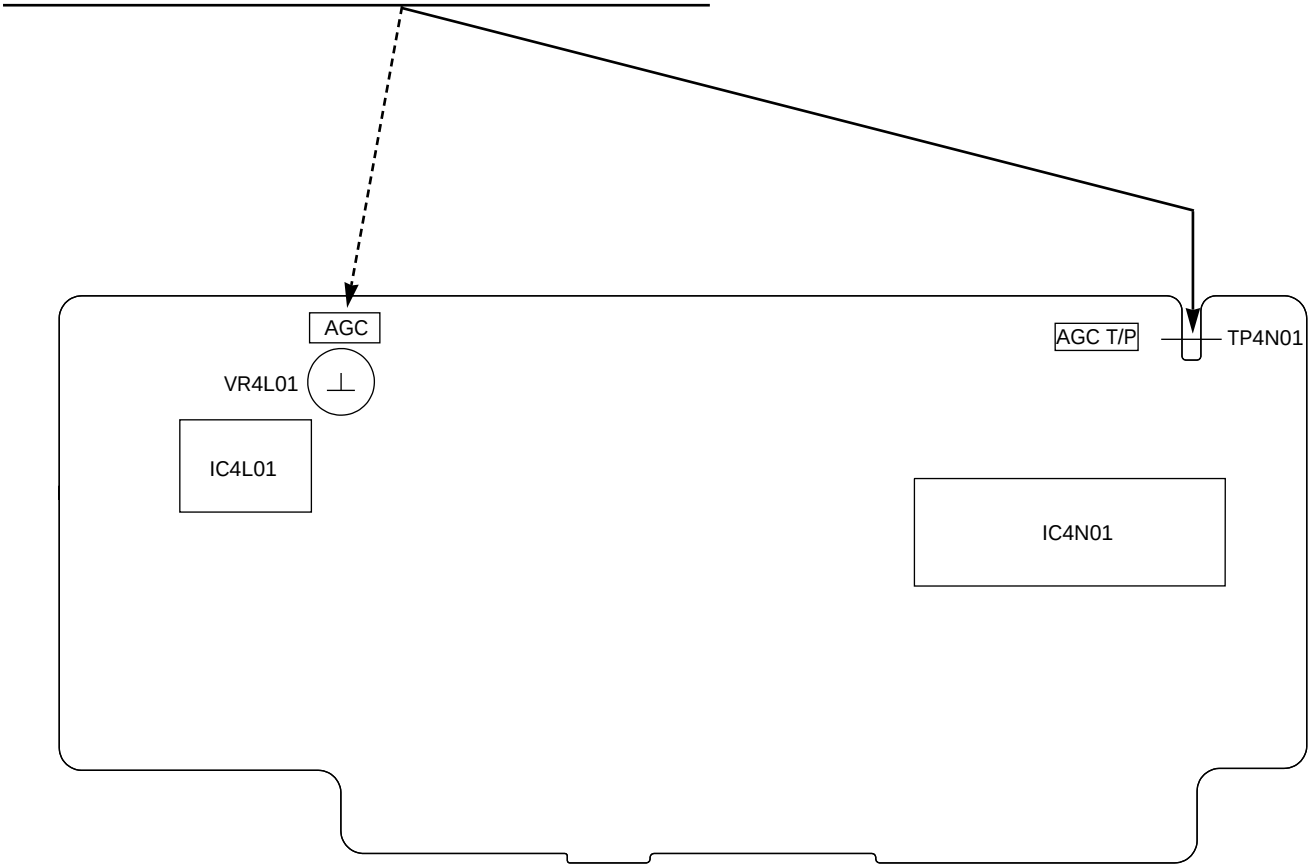


Fig. 5-7 SUB (A2/NICAM) PCB

6. Exploded View and Parts List

Page

6-1 Cabinet Assembly - 6-2
(SV-717X/715X/700XK/717F/717B/SVR-715)

6-2 Cabinet Assembly - 6-4
(SV-617X/615X/617F/617B/615B/615G/SVR-615/SV-B160B/B140G)

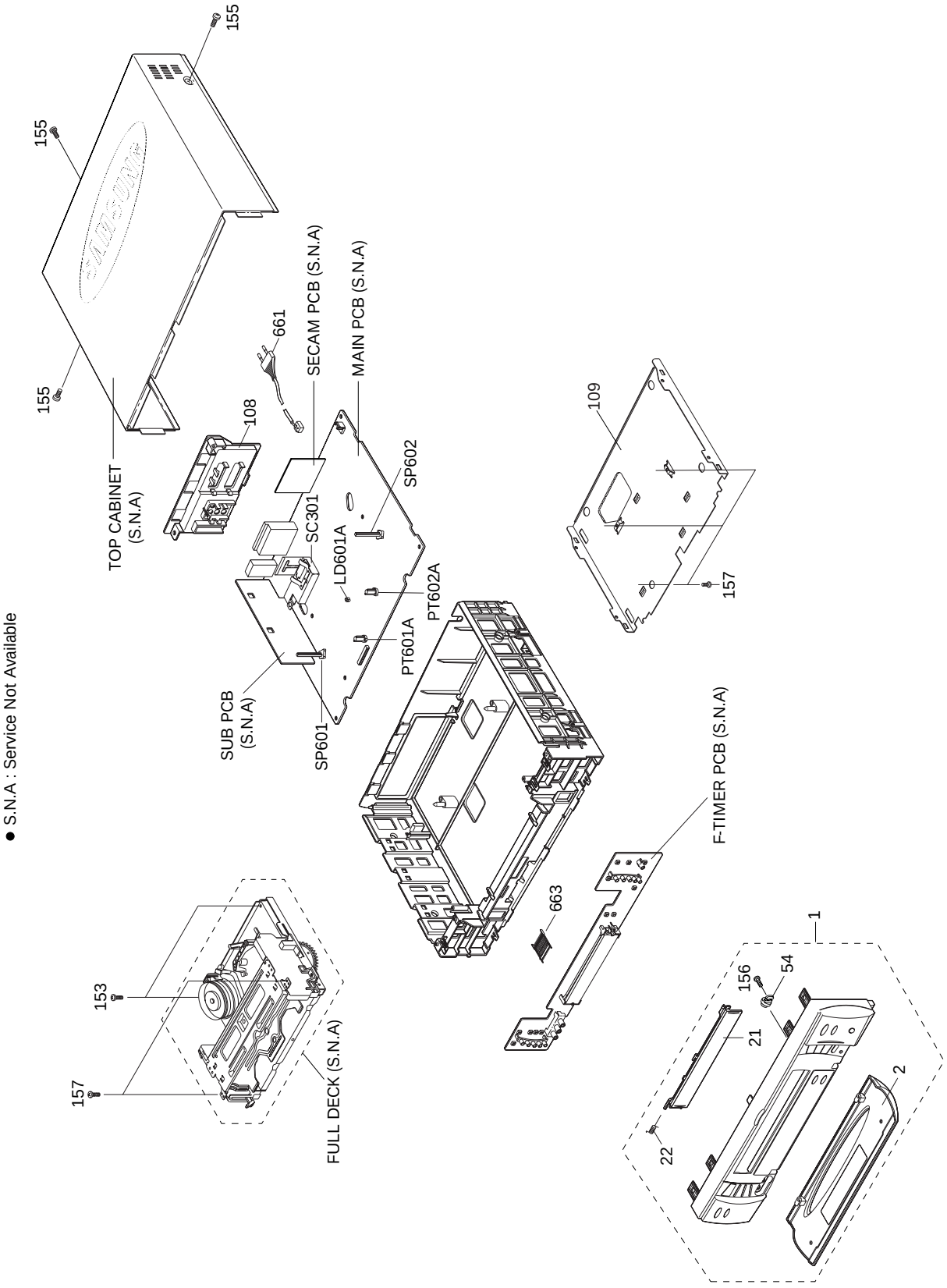
6-3 Mechanical Parts (Top Side) ; 7 H'D - - - - - - - - - - - - - - - - 6-6

6-4 Mechanical Parts (Top Side) ; 6 H'D - - - - - - - - - - - - - - - - 6-8

6-5 Mechanical Parts (Bottom Side) - - - - - - - - - - - - - - - - - - - 6-10

6-6 Housing Assembly - 6-12

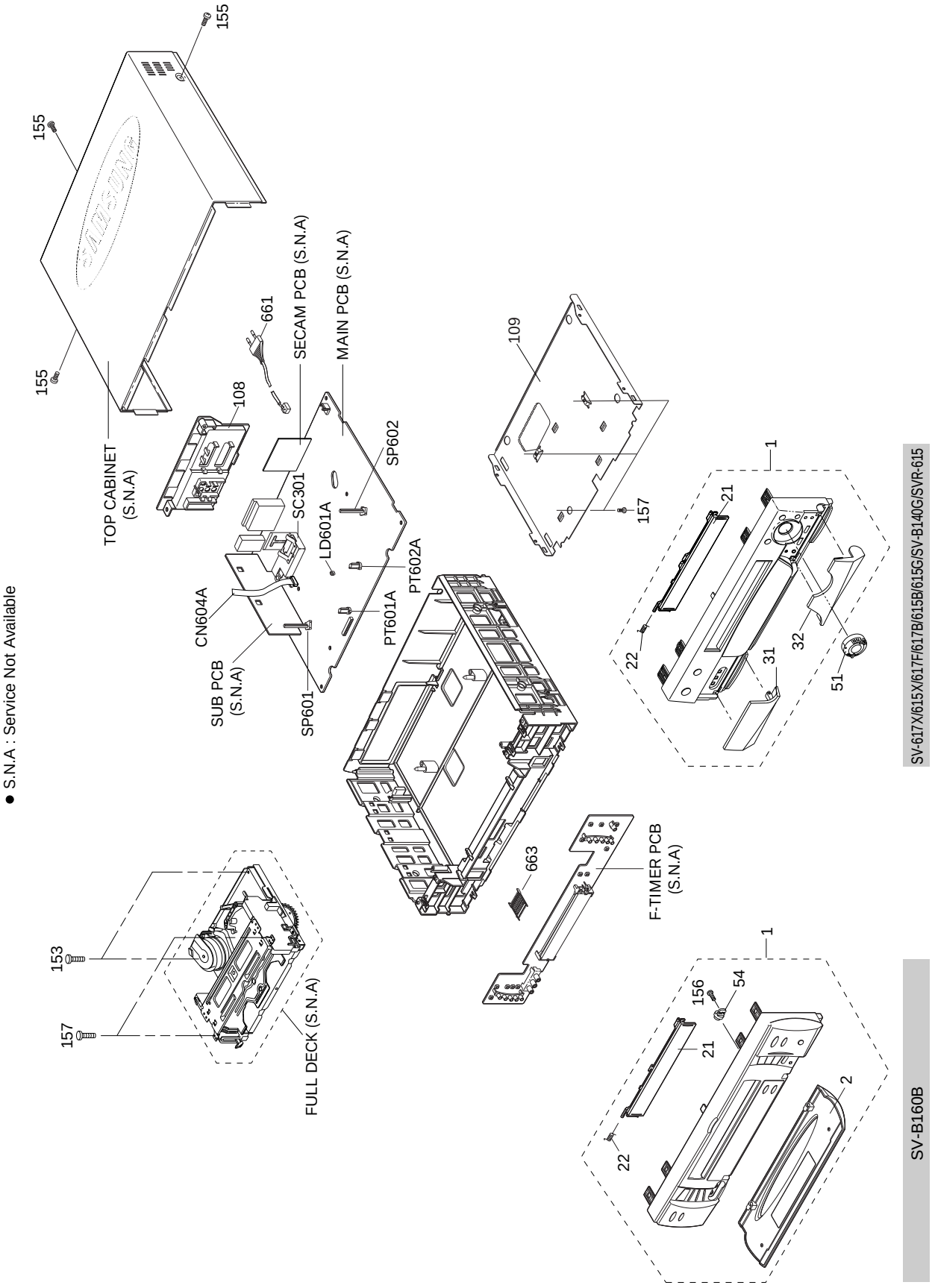
6-1 Cabinet Assembly (SV-717X/715X/700XK/717F/717B/SVR-715)



Loc. No	Part No	Description and Specification	Remark
1	**Refer to table below**	ASSY-PANEL FRONT	
2	**Refer to table below**	ASSY-FRONT DOOR	
21	**Refer to table below**	DOOR-CASSETTE	
22	AC61-62003A	SPRING;-,SUS304,(GE/RCA),-,-,-,-	
54	62664-0021-00	DAMPER(ASSY);SV-70D	
108	**Refer to table below**	CONNECTOR BOARD-ASSY	
109	AC63-32126A	COVER-BOTTOM;SV-D140F	
153	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-,-	
155	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
156	AC60-10069A	SCREW-TAPTITE;PH,+,-,M3,L10,ZPC3,SWRCH18	
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
661	**Refer to table below**	POWER-CORD	
663	3711-002603	CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STR	
LD601A	AC61-22345A	HOLDER-LED;POM,-,-,-,-,-	
PT601A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
PT602A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
SP601	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SP602	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SC301	AC98-12027B	ASSY-SH/CASE TOP;SV-A160X/SEG,IS-PAL A	

COUNTRY	MODELS	1	2	21	108	661
GERMANY	SV-717X	AC98-11249Y	AC64-50836Q	AC64-50838Q	AC61-10972V	AC39-10019A
FRANCE	SV-717F	AC98-11249U	AC64-50836S	AC64-50838S	AC61-10972W	AC39-10019A
U.K	SV-717B	AC98-11250A	AC64-50836P	AC64-50838P	AC61-10972E	AC39-12022K
SPAIN	SV-715X	AC98-11249W	AC64-50836L	AC64-50838L	AC61-10972V	AC39-10019A
ITALY	SV-715X	AC98-11249V	AC64-50836K	AC64-50838K	AC61-10972V	AC39-10019A
PORTUGAL	SV-715X	AC98-11249W	AC64-50836L	AC64-50838L	AC61-10972V	AC39-10019A
SWEDEN/NORWAY/FINLAND	SV-700XK	AC98-11258C	AC98-11258L	AC64-50838T	AC61-10972V	AC39-10019A
SWITZERLAND	SV-715X	AC98-11249V	AC64-50836K	AC64-50838K	AC61-10972V	AC39-10019A
AUSTRIA	SV-700XK	AC98-11258C	AC98-11258L	AC64-50838T	AC61-10972V	AC39-10019A
GREECE	SV-715X	AC98-11249V	AC64-50836K	AC64-50838K	AC61-10972V	AC39-10019A
NETHERLANDS	SV-715X	AC98-11249W	AC64-50836L	AC64-50838L	AC61-10972V	AC39-10019A
BELGIUM	SV-715X	AC98-11249W	AC64-50836L	AC64-50838L	AC61-10972V	AC39-10019A
DENMARK	SV-715X	AC98-11249W	AC64-50836L	AC64-50838L	AC61-10972V	AC39-10019A
CIS	SVR-715	AC98-11249Z	AC64-50836N	AC64-50838N	AC61-10972Z	AC39-10019A
RUSSIS	SVR-715	AC98-11249Z	AC64-50836N	AC64-50838N	AC61-10972Z	AC39-10019A

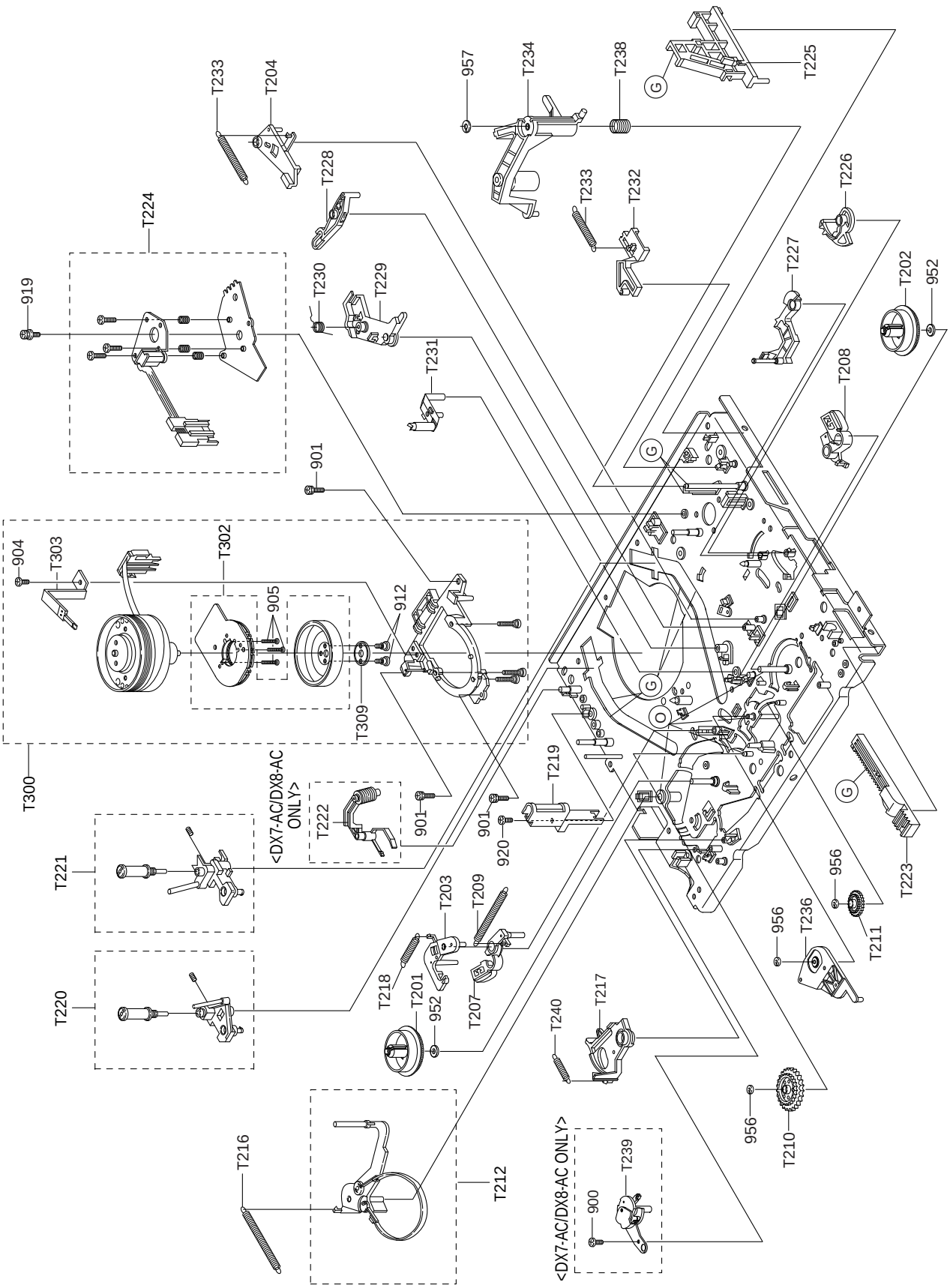
6-2 Cabinet Assembly (SV-617X/615X/617F/617B/615B/615G/SVR-615/SV-B160B/B140G)



Loc. No	Part No	Description and Specification	Remark
1	**Refer to table below**	ASSY-PANEL FRONT	
2	AC64-50836M	ASSY-FRONT DOOR	SV-B160B Only
21	**Refer to table below**	DOOR-CASSETTE	
22	AC61-62003A	SPRING;-,SUS304,(GE/RCA),-,-,-,-	
31	**Refer to table below**	DOOR-FRONT L	
32	**Refer to table below**	DOOR-FRONT R	
51	AC64-10973A	KNOB-SHUTTLE;ABS94,HB,GRY,SV-B80FK,-,-	
54	2664-0021-00	DAMPER(ASSY);SV-70D	SV-B160B Only
108	**Refer to table below**	CONNECTOR BOARD-ASSY	
109	AC63-32126A	COVER-BOTTOM;SV-D140F	
153	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-	
155	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
156	AC60-10069A	SCREW-TAPTITE;PH,+,-,M3,L10,ZPC3,SWRCH18	SV-B160B Only
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
661	**Refer to table below**	POWER-CORD	
663	3711-002603	CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STR	
CN604A	3809-001048	CABLE-FLAT;30V,80C,110mm,6P,1.25MM, UL2896	
LD601A	AC61-22345A	HOLDER-LED;POM,-,-,-,-,-	
PT601A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
PT602A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
SP601	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SP602	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SC301	AC98-12023J	ASSY-SH/CASE TOP;SV-A140F,IS-PAL	
	AC98-12027B	ASSY-SH/CASE TOP;SV-A160X/SEG,IS-PAL A	SV-B160B Only

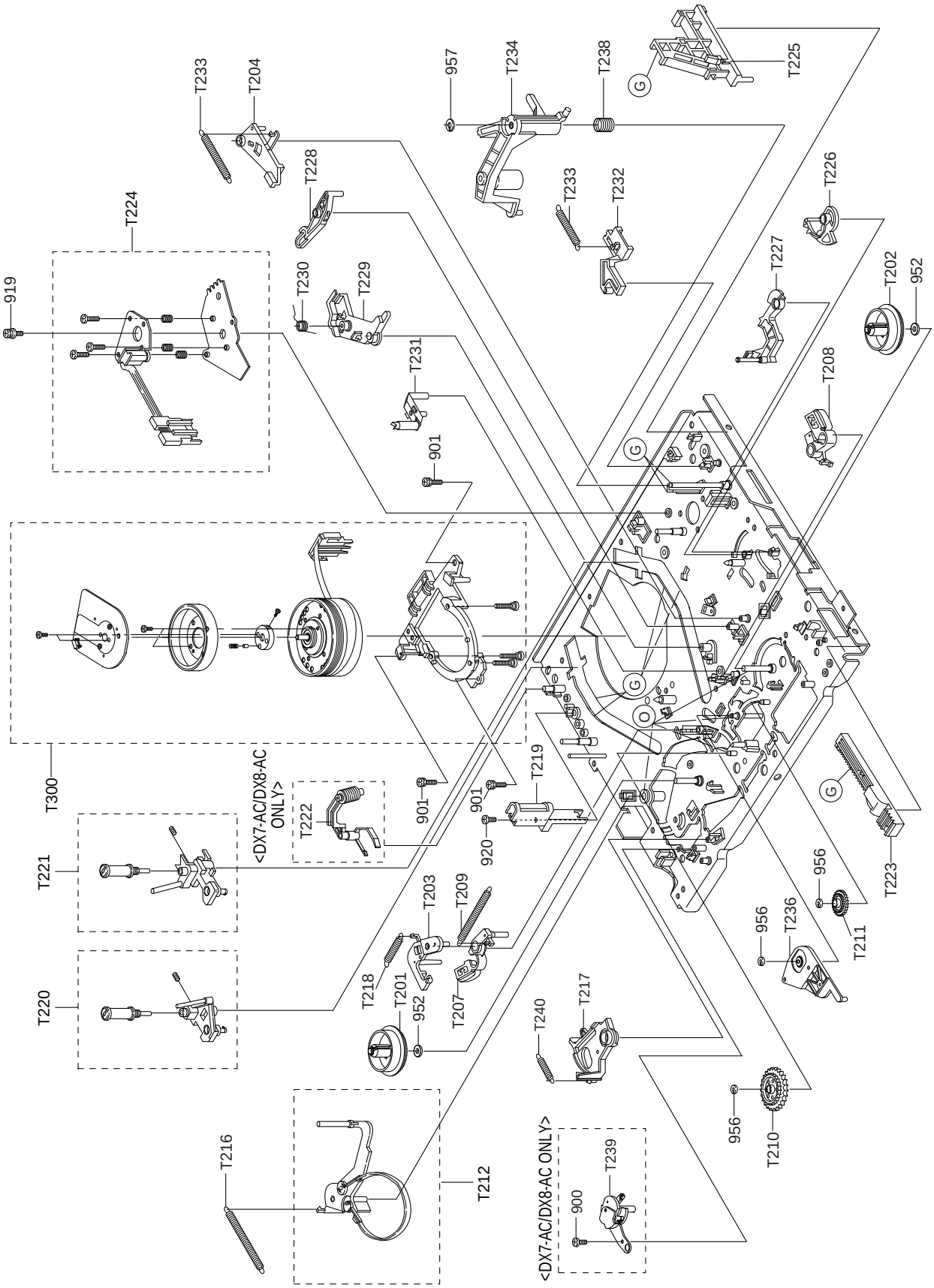
COUNTRY	MODELS	1	21	31	32	108	661
GERMANY	SV-617X	AC98-11243U	AC64-52148G	AC64-50876D	AC64-50877D	AC61-10972V	AC39-10019A
	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
FRANCE	SV-617F	AC98-11243Y	AC64-52148E	AC64-50876C	AC64-50877F	AC61-10972W	AC39-10019A
U.K	SV-617B	AC98-11243X	AC64-52148G	AC64-50876D	AC64-50877G	AC61-10972E	AC39-12022K
	SV-615B	AC98-11243W	AC64-52148F	AC64-50876D	AC64-50877H	AC61-10972E	AC39-12022K
SPAIN	SV-615X	AC98-11249J	AC64-52148F	AC64-50876D	AC64-50877J	AC61-10972V	AC39-10019A
ITALY	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
PORTUGAL	SV-615X	AC98-11249J	AC64-52148F	AC64-50876D	AC64-50877J	AC61-10972V	AC39-10019A
SWEDEN/NORWAY/FINLAND	SV-615X	AC98-11249J	AC64-52148F	AC64-50876D	AC64-50877J	AC61-10972V	AC39-10019A
SWITZERLAND	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
AUSTRIA	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
GREECE	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
NETHERLANDS	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
BELGIUM	SV-615X	AC98-11249J	AC64-52148F	AC64-50876D	AC64-50877J	AC61-10972V	AC39-10019A
DENMARK	SV-615X	AC98-11249J	AC64-52148F	AC64-50876D	AC64-50877J	AC61-10972V	AC39-10019A
CIS	SVR-615	AC98-11249L	AC64-52148F	AC64-50876D	AC64-50877H	AC61-10972Z	AC39-10019A
RUSSIS	SVR-615	AC98-11249L	AC64-52148F	AC64-50876D	AC64-50877H	AC61-10972Z	AC39-10019A
CROATIA	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
SOLOVENIA	SV-615X	AC98-11243V	AC64-52148F	AC64-50876D	AC64-50877E	AC61-10972V	AC39-10019A
CZECHO	SV-615G	AC98-11249K	AC64-52148F	AC64-50876D	AC64-50877K	AC61-10972Y	AC39-10019A
HUNGARY	SV-615G	AC98-11249K	AC64-52148F	AC64-50876D	AC64-50877K	AC61-10972Y	AC39-10019A
POLAND	SV-615G	AC98-11249K	AC64-52148F	AC64-50876D	AC64-50877K	AC61-10972V	AC39-10019A
BULGARIA	SV-615G	AC98-11249K	AC64-52148F	AC64-50876D	AC64-50877K	AC61-10972Y	AC39-10019A
ROMANIA	SV-615G	AC98-11249K	AC64-52148F	AC64-50876D	AC64-50877K	AC61-10972Y	AC39-10019A
ISRAEL	SV-B140G	AC98-11250Z	AC64-52148F	AC64-50876D	AC64-50877H	AC61-10972Z	AC39-10019A
AUSTRALIA	SV-B160B	AC98-11250B	AC64-50838M	X	X	AC61-10972Z	AC39-10015A

6-3 Mechanical Parts (Top Side) ; 7H'D



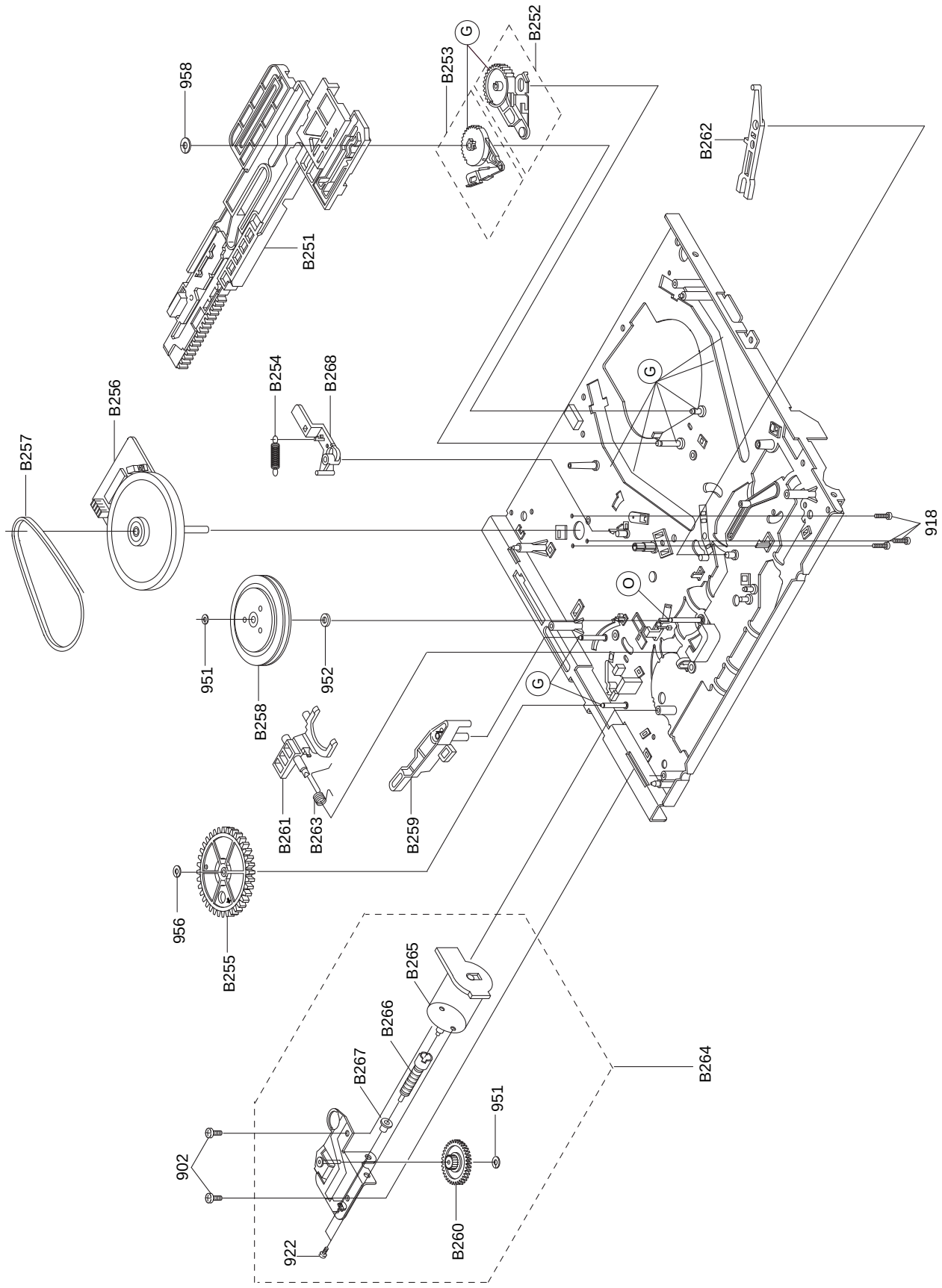
Loc. No	Part No	Description and Specification	Remark
900	AC60-12091A	SCREW-MACHINE;FP,BH,-,M3,L4,SWRCH10A,YEL ROB	(OPTIONAL)
901	AC60-10012A	SCREW-MACHINE;BH,+,M3,L8,-,FE,-,-,-	
904	AC60-12125A	SCREW-PH;-,-,-,M3X6 TAP TITE,-,-,-,-,-	
905	AC60-12096A	SCREW-MACHINE;FP,PH,-,M2.6,X10,SWRCH1-A,YEL	
912	67094-604-710	SCREW-DAMPER;M2.0X7.0 SWCM 10(MFZN2-C)	
919	AC60-10004A	SCREW-MACHINE;BH,+,M3,L8,ZPC,SWRCH18A,-,	
920	AC60-10007A	SCREW-TAPPING;BH,+,M2.6,L12,-,SWRCH18A,-	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLID	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,	
957	AC60-30008A	WASHER-SLIT;-,ID3.5,OD9,T0.5,SPC1,-,-	
T201	AC66-10023A	REEL-DISK L ASSY;POM,-,PACKAGE,X-5,-	
T202	AC66-10022A	REEL-DISK R (ASSY);POM,-,PACKAGE,X-5,-	
T203	AC66-30474A	BRAKE-SUB L;-,PBT,-,-,-,X-5/IS	
T204	AC66-30148A	BRAKE SUB R;-,-,-,-,X5,-	
T207	AC66-30475A	BRAKE-MAIN L ASS'Y;-,POM+PELT,-,-,-,X-5/	
T208	AC66-30476A	BRAKE-MAIN R ASS'Y;-,POM+PELT,-,-,-,X-5/	
T209	AC61-60112A	SPRING- BRAKE MAIN;ES,SUS304WPB,PI0.35,I	
T210	AC66-20073A	GEAR RELAY S-ASSY;-,-,-,-,-,X5,-	
T211	AC66-20037A	GEAR- RELAY T;PEBAX7033,X-5,Z39,GEAR-SPU	
T212	AC66-30073A	ARM-TENSION ASSY;-,DX5-R,-,-,-,-	
T216	AC61-60119A	SPRING TENSION;ES,SWPB,PI0.4,D3,L33(OD3.	
T217	AC66-30470A	LEVER-REC S/W;-,PBT #3300,T4.0,L32,-,(X-	
T218	AC61-62017A	SPRING-SUB BRAKE L;ES,SUS304,PI0.23,D3.5	
T219	AC33-10003P	HEAD- MAGNET F/E;MH131S,-,-,-,L51.05XW7.	
T220	AC66-82050A	SLIDER-G/R ASSY(S);-,-,-,-,X-5	
T221	AC66-82054A	SLIDER-G/R ASSY(T);-,-,-,-,X-5	
T222	AC33-10002E	HEAD-CLEANER;-,-,-,X-5	(OPTIONAL)
T223	AC66-20065A	RACK-HOUSING;L74.29,POM M90-44,BLK,M1,3.	
T224	AC33-10216K	HEAD-ACE ALL ASSY;-,-,-,-,X-7A	
T225	AC66-80005A	SLIDER-PINCH;POM(M90-44),T10.5,L54.35,NA	
T226	AC66-30014A	LEVER-REVIEW;ZYTEL(70G-43L),T5,-,PCD25.6	
T227	AC66-30099A	ARM-REVIEW ASSY;-,-,-,-,DX5-R,-	
T228	AC66-30013A	LEVER- CAM;PBT 6300T,-,L45,W9,X-5,-	
T229	AC66-30003A	LEVER-PINCH COMP;PBT 3300,T7.5,L45.25,-,	
T230	AC61-60116A	SPRING- PINCH COMP;TS,SWPB,PI1.0,D6,L38(	
T231	AC67-32001A	PRISM-LED;PMMA,D5,IF-850,-,-,-	
T232	AC66-82049A	SLIDER-PUSH;LUPOX 2150,T2,-,NTR,-	
T233	AC61-62016A	SPRING-SLIDE PUSH;ES,SUS304WPB,PI0.55,D3	
T234	AC59-90402A	UNIT-PINCH ROLLER;X-7A,RESIN BEARING	
T236	AC66-10010A	IDLER-ASSY;PACKAGE,-,X-5,-	
T238	AC61-60132A	SPRING ARM PINCH;CS,SUS304WPB,PI0.4,D7.1	
T239	AC66-30132A	LEVER JOG-ASS'Y;-,-,-,X-5	(OPTIONAL)
T240	AC61-60505A	SPRING-REC S/W;-,ES,SUS304 WPB,PI0.29,PI	
T300	AC96-10475Y	ASSY-CYLINDER;CX5-H7P/DLC	(7 H'D DLC)
T302	AC31-12001M	MOTOR-CYLINDER;E20XL03,-,-	
T303	AC33-12004S	HEAD-BRUSH(ASSY);SECC20/20+CARBON,-,-,-,-	
T309	AC73-12001A	RETRINER-RUBBER(ASSY);SECC+SILICON,-,-,-	

6-4 Mechanical Parts (Top Side) ; 6H'D



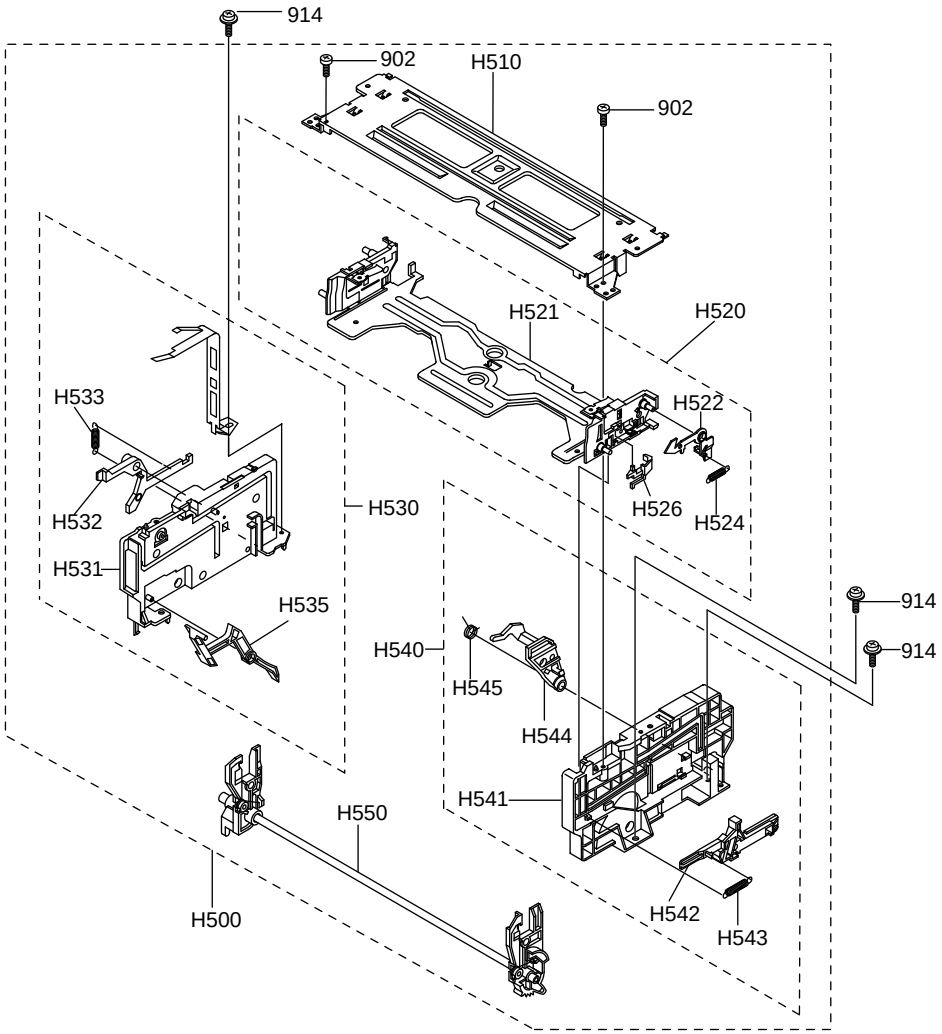
Loc. No	Part No	Description and Specification	Remark
900	AC60-12091A	SCREW-MACHINE;FP,BH,-,M3,L4,SWRCH10A,YEL ROB	(OPTIONAL)
901	AC60-10012A	SCREW-MACHINE;BH,+,M3,L8,-,FE,-,-,-	
919	AC60-10004A	SCREW-MACHINE;BH,+,M3,L8,ZPC,SWRCH18A,-,	
920	AC60-10007A	SCREW-TAPPING;BH,+,M2.6,L12,-,SWRCH18A,-	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLID	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,	
957	AC60-30008A	WASHER-SLIT;-,ID3.5,OD9,T0.5,SPC1,-,-	
T201	AC66-10023A	REEL-DISK L ASSY;POM,-,PACKAGE,X-5,-	
T202	AC66-10022A	REEL-DISK R (ASSY);POM,-,PACKAGE,X-5,-	
T203	AC66-30474A	BRAKE-SUB L;-,PBT,-,-,-,X-5/IS	
T204	AC66-30148A	BRAKE SUB R;-,-,-,-,X5,-	
T207	AC66-30475A	BRAKE-MAIN L ASS'Y;-,POM+PELT,-,-,-,X-5/	
T208	AC66-30476A	BRAKE-MAIN R ASS'Y;-,POM+PELT,-,-,-,X-5/	
T209	AC61-60112A	SPRING- BRAKE MAIN;ES,SUS304WPB,PI0.35,I	
T210	AC66-20073A	GEAR RELAY S-ASSY;-,-,-,-,-,X5,-	
T211	AC66-20037A	GEAR- RELAY T;PEBAX7033,X-5,Z39,GEAR-SPU	
T212	AC66-30073A	ARM-TENSION ASSY;-,DX5-R,-,-,-,-	
T216	AC61-60119A	SPRING TENSION;ES,SWPB,PI0.4,D3,L33(OD3.	
T217	AC66-30470A	LEVER-REC S/W;-,PBT #3300,T4.0,L32,-,(X-	
T218	AC61-62017A	SPRING-SUB BRAKE L;ES,SUS304,PI0.23,D3.5	
T219	AC33-10003P	HEAD- MAGNET F/E;MH131S,-,-,-,L51.05XW7.	
T220	AC66-82050A	SLIDER-G/R ASSY(S);-,-,-,-,X-5	
T221	AC66-82054A	SLIDER-G/R ASSY(T);-,-,-,-,X-5	
T222	AC33-10002E	HEAD-CLEANER;-,-,-,X-5	(OPTIONAL)
T223	AC66-20065A	RACK-HOUSING;L74.29,POM M90-44,BLK,M1,3.	
T224	AC33-10216K	HEAD-ACE ALL ASSY;-,-,-,-,X-7A	
T225	AC66-80005A	SLIDER-PINCH;POM(M90-44),T10.5,L54.35,NA	
T226	AC66-30014A	LEVER-REVIEW;ZYTEL(70G-43L),T5,-,PCD25.6	
T227	AC66-30099A	ARM-REVIEW ASSY;-,-,-,-,DX5-R,-	
T228	AC66-30013A	LEVER- CAM;PBT 6300T,-,L45,W9,X-5,-	
T229	AC66-30003A	LEVER-PINCH COMP;PBT 3300,T7.5,L45.25,-,	
T230	AC61-60116A	SPRING- PINCH COMP;TS,SWPB,PI1.0,D6,L38(	
T231	AC67-32001A	PRISM-LED;PMMA,D5,IF-850,-,-,-	
T232	AC66-82049A	SLIDER-PUSH;LUPOX 2150,T2,-,NTR,-	
T233	AC61-62016A	SPRING-SLIDE PUSH;ES,SUS304WPB,PI0.55,D3	
T234	AC59-90402A	UNIT-PINCH ROLLER;X-7A,RESIN BEARING	
T236	AC66-10010A	IDLER-ASSY;PACKAGE,-,X-5,-	
T238	AC61-60132A	SPRING ARM PINCH;CS,SUS304WPB,PI0.4,D7.1	
T239	AC66-30132A	LEVER JOG-ASS'Y;-,-,-,X-5	(OPTIONAL)
T240	AC61-60505A	SPRING-REC S/W;-,ES,SUS304 WPB,PI0.29,PI	
T300	AC96-10475L	ASSY-CYLINDER;CX8A-H6P	(6 H'D NON-DLC)
	AC96-10475K	ASSY-CYLINDER;CX8A-H6P/DLC	(6 H'D DLC)

6-5 Mechanical Parts (Bottom Side)



Loc. No	Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
918	AC60-10041A	SCREW-TAPPING;BH,+,-,M2.6XL7.5,ZPC3	
922	AC60-10504A	SCREW-MACHINE;-,PH,+,-,M3,L3,FE,FZY,YEL	
951	AC60-30025A	WASHER-SLIT;-,ID2.5,OD5.0,T0.5,POLY SLID	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLID	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,	
958	AC60-30028A	WASHER-SLIT;-,D2.5,D9.0,T0.5,NUMIRROR,-,	
B251	AC66-82043A	SLIDER-MAIN;TOPEX 4010S,-,-,-,-	
B252	AC66-20019A	GEAR-LOADING L ASSY;-,-,-,PACKAGE,-,X-5,	
B253	AC66-20069A	GEAR-LOADING R ASSY;-,-,-,-,-,X5,-	
B254	AC61-60115A	SPRING-BRAKE CAPSTAN;ES,SUS304WPB,PI0.4,	
B255	AC66-20004A	GEAR-MASTER;POM (M90-44),M 1,Z 60,SP,-,X	
B256	AC31-12006A	MOTOR-D/D CAPSTAN;DMVCMC07A,-,-	
B257	AC66-62008A	BELT-CAPSTAN;-,DLB-601,T2,8,L134.9,BLK,X	
B258	AC66-20066A	GEAR-CLUTCH ASSY;X-5,-,-,-,-,-,-	
B259	AC66-32185A	LEVER-SLIDER PINCH;PBT,T4,NAT,-,-,-	
B260	AC66-20016A	GEAR- WORM WHEEL;POM SW-01,M0.55/M1,Z57/	
B261	AC66-30011A	LEVER- SHIFT;PBT2002K,T10.9,L35,-,-,-	
B262	AC66-30012A	LEVER- IDELR CHANGE;PBT330,T33,L50,-,W6.	
B263	AC61-60111A	SPRING-LEVER SHIFT;TS,SWPB,PI0.7,D5.5,L1	
B264	AC59-90001A	UNIT-LOADING ASSY;X-5,-,-	
B265	AC31-12015A	MOTOR-LOADING ASSY;POM+RF370C X-5	
B266	AC66-20039A	GEAR- WORM LO;PBT 2002K,-,-,-,D4.5,3,-	
B267	AC61-20224A	HOLDER SHAFT;POM M90-44,T1.25,NTR,PI5XH5	
B268	AC66-30149A	BRAKE CAPSTAN;-,-,-,-,X5,-	

6-6 Housing Assembly



Loc. No	Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
914	AC60-10067A	SCREW-TAPTITE;PWH,+,-,M3,L8,MFZN2-C,SWCH	
H500	AC61-82014D	HOUSING-ASSY;-,X7FL26280B,230X130X60,-,X	
H510	AC61-10006A	CHASSIS- UPPER;SECC 20/20,-,T1.0,BLK,-,X	
H520	AC61-20932B	HOLDER-CASSETTE ASSY;-,X5FL06080A,-,-,-	
H521	AC61-20922B	HOLDER-CASSETTE;-,SECC T1.2,-,NAT,-,X-7(	
H522	AC66-30018A	LEVER-LOCK R;SECC 20/20,T1.2,L44,W32,-,-	
H524	AC61-60121A	SPRING-LEVER LOCK;ES,SUS304 WPB,PI0.2,D2	
H526	AC66-30019A	LEVER-KEY CASSETTE;LUCEL N109-LD,T2.5,L2	
H530	AC61-11033A	CHASSIS-SIDE L ASSY;-,-,-,-,-,X5FL0505A,	
H531	AC61-10004A	CHASSIS- SIDE L;ABS HF-380,-,T10,BLK,-,X	
H532	AC66-30004A	LEVER- LIGHT SHUTTER;LUCEL N109-LD,T2.5,	
H533	AC61-60142A	SPRING- LIGHT;ES,SUS304WPB,PI0.2,L11.4(O	
H535	AC66-30017A	LEVER- DOOR;LUCELN109-LD,T3.5,L74.3,W21.	
H540	AC61-11032A	CHASSIS-SIDE R ASSY;-,-,-,-,-,X5FL0505A,	
H541	AC61-10003A	CHASSIS- SIDE R;ABS HF-380,-,T10,BLK,-,X	
H542	AC66-80008A	SLIDER DAMPER;LUCEL N109-LD,T4,L87,-,-,-	
H543	AC61-60120A	SPRING-SLIDER;ES,SUS 304WPB,PI0.4,D3.8,L	
H544	AC66-30016A	LEVER- LID OPENER;LUCEL N109-LD,T4.0,L34	
H545	AC61-60123A	SPRING-LID OPENER;TS,SWPB,PI0.55,D8.9,L1	
H550	AC61-50654A	SHAFT-ARM ASSY;-,SUM24L,-,-,-,-,X-5	

7. Electrical Parts List

Loc.No	Part No	Desc and Spec	Remark
	-	**ASSY-MAIN;HI-FI**	**S.N.A**
SMPS/POWER PARTS			
C1P01	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C1P02	2401-001583	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5m	
C1P03	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
C1P04	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C1P05	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C1P06	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,1mm	
C1P07	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C1P09	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C1P10	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C1S03	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1S04	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1S05	2201-000808	C-CERAMIC,DISC;2.2nF,10%,400V,Y5P,12x7.5	⚠
C1S06	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5P,18x8,1	⚠
C1S08	2401-003302	C-AL;47uF,20%,400V,GP,TP,18X31.5,7.	⚠ 230V ONLY
C1S08	2401-003303	C-AL;82uF,20%,400V,GP,TP,18X31.5,7.	⚠ FREE VOLT
C1S09	2301-000140	C-FILM,PEF;10nF,10%,630V,16.5X9.5X5.7X,1	
C1S10	2201-000915	C-CERAMIC,DISC;100pF,10%,1KV,Y5P,TP,6x5,	
C1S15	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C1S16	2201-000795	C-CERAMIC,DISC;10nF,10%,400V,Y5P,15x10,5	
C1S18	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C1S19	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C1S20	2401-000970	C-AL;22uF,20%,50V,WT,TP,5x11,2mm	
C1S30	2401-000385	C-AL;10UF,20%,100V,GP,-,6.3X11,2.5M	
C1S31	2401-001134	C-AL;330UF,20%,35V,WT,TP,10X16,5MM	
C1S32	2401-001998	C-AL;1000uF,20%,25V,GP,TP,10x20,5mm	
C1S33	2401-001125	C-AL;330UF,20%,25V,WT,TP,10X12.5,5M	
C1S34	2401-001992	C-AL;2200uF,20%,10V,GP,10x20mm,5mm,	
C1S35	2401-001355	C-AL;470UF,20%,10V,GP,-,8X11.5,5MM	
C1S36	2401-001583	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5m	
C1S37	2401-001374	C-AL;470UF,20%,16V,WT,TP,10X12.5,2.	
C1S38	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C1S39	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C1S40	2301-000423	C-FILM,PEF;3.3NF,5%,100V,TP,7X10X4.5MM,5	
CN1S1	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	⚠
D1P01	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D1P02	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D1P03	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D1P06	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D1P20	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D1S01	0402-001009	DIODE-RECTIFIER;1SR139,600V,1A,MSR	⚠
D1S02	0402-001009	DIODE-RECTIFIER;1SR139,600V,1A,MSR	⚠
D1S03	0402-001009	DIODE-RECTIFIER;1SR139,600V,1A,MSR	⚠
D1S04	0402-001009	DIODE-RECTIFIER;1SR139,600V,1A,MSR	⚠
D1S05	0402-000378	DIODE-RECTIFIER;EG01C,1000V,500mA,DO-41	
D1S07	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO	
D1S30	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO	
D1S31	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO	
D1S32	0402-001069	DIODE-RECTIFIER;RL10Z,200V,2A,DO,TP	
D1S33	0402-000431	DIODE-RECTIFIER;FML-M02S,200V,2.5A,TO-22	
D1S34	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO	
D1S35	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO	
F1S01	A3065-0157	FUSE;FST 250V 1.6A 20MM SEMKO S505 C	⚠

Loc.No	Part No	Desc and Spec	Remark
IC1P01	AC14-12001E	IC;KA7809,-,-	
IC1S1	1203-001049	IC-PWM CONTROLLER:1L0380,TO-220F,4P,10MI	⚠
IC1S2	0604-011028	PHOTO-COUPLER;PS2561-1 ST DIP	⚠
IC1S3	AC14-12006D	IC;KA431Z,TO-92,TAPING	⚠
L1S01	AC29-30050A	FILTER-LINE NOISE;-,400UH,-,250V,-	⚠
L1S02	A1151-0042	COIL-LINE FILTER;BSF-2120Z 25MH 3.2OHM	⚠
L1S04	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S05	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	⚠
L1S30	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1S31	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1S32	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S33	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S34	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
PT1S01	AC26-20120A	TRANS-SWITCHING;-,220V,UL/CSA,-,1000UH,-	⚠
Q1P01	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
Q1P02	0504-000116	TR-DIGITAL;KSR1001,NPN,300mW,4.7K-4.7K,T	
Q1P03	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
Q1P04	0504-000118	TR-DIGITAL;KSR1003,NPN,300mW,22K-22K,TO-	
Q1P05	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P06	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P07	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R1P02	2004-001096	R-METAL;560ohm,5%,1/4W,AA,TP,2.4X6.4mm	
R1P03	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1P04	2001-000611	R-CARBON;3.9Kohm,5%,1/4W,AA,TP,2.4x6.4m	
R1P05	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1P06	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1P07	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1P09	2004-000571	R-METAL;220ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1P10	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1S02	2003-000273	R-METAL OXIDE;33Kohm,5%,2W,AA,TP,6x16mm	
R1S03	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1S06	2003-000273	R-METAL OXIDE;33Kohm,5%,2W,AA,TP,6x16mm	
R1S07	2001-000302	R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1S11	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,ST,7.5x11x20.	
R1S12	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1S13	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1S14	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1S15	2003-000148	R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM	
R1S30	2001-000515	R-CARBON ;220OHM,5%,1/8W,AA,TP	
R1S31	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1S32	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1S33	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	⚠
R1S34	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.	⚠
R1S35	2001-000440	R-CARBON;1ohm,5%,1/8W,AA,TP,1.8x3.2mm	
VA1S01	1405-000186	VARISTOR;470V,4500A,17x12mm,TP	
VA1S02	1405-000186	VARISTOR;470V,4500A,17x12mm,TP	
ZD1P02	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
ZD1S01	0403-000539	DIODE-ZENER;MTZ18C,18V,17.42-18.33V,500m	
ZD1S02	0403-000294	DIODE-ZENER;MTZ4.7B,4.55-4.80V,500mW,DO-	
SYSTEM CONTROL/SERVO PARTS			
C601	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C602	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C603	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C604	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	

Loc.No	Part No	Desc and Spec	Remark
C605	2203-001577	C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP	
C606	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C607	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C608	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C609	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2	
C610	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2	
C6102	2203-000239	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
C6103	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,20	
C6104	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,20	
C6105	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C6106	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C6107	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
C6108	2203-000892	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C611	2203-000533	C-CERAMIC,CHIP;2.7nF,10%,50V,X7R,TP,2012	
C6112	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C6114	2201-000800	C-CERAMIC,DISC;120PF,5%,50V,SL,TP,5X3,5	
C6116	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,20	
C6117	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,20	
C6119	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C612	2203-001577	C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP	
C6120	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C6123	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C6124	2401-001325	C-AL;470nF,20%,50V,GP,TP,3x5,5	
C6126	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C613	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C614	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C615	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C617	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C618	2203-001702	C-CERAMIC,CHIP;2.2nF,5%,50V,X7R,2012,-,T	
C619	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C620	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C621	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C622	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C623	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C624	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C625	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C626	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C627	2203-001608	C-CERAMIC,CHIP;22nF,+80-20%,50V,Y5V,2012	
C628	2203-001608	C-CERAMIC,CHIP;22nF,+80-20%,50V,Y5V,2012	
C629	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C630	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C631	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C632	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C633	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C634	2401-000208	C-AL;100nF,+80-20%,5.5V,GP,TP,12.3m	
C635	2401-000199	C-AL;1000UF,20%,6.3V,GP,TP,10X12.5,	
C636	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C637	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C638	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C639	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C640	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C642	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C643	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C645	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C646	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C647	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C648	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C649	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C650	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C651	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C652	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C653	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C654	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C655	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C656	2401-001036	C-AL;33uF,20%,16V,GP,TP,6.3x5,5	
C657	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,1mm	
C658	2401-000912	C-AL;22UF,20%,16V,GP,-,5X5,5	
C659	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C660	2203-001702	C-CERAMIC,CHIP;2.2nF,5%,50V,X7R,2012,-,T	
C661	2203-001702	C-CERAMIC,CHIP;2.2nF,5%,50V,X7R,2012,-,T	
C663	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
C681	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C682	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C698	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C699	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
CN601	3710-000546	CONNECTOR-SOCKET;20P,1R,1.5MM,ANGLE,SN	
CN602	3710-000405	CONNECTOR-SOCKET;2P,2R,2.5MM,-,	
CN603	3711-003749	CONNECTOR-HEADER;BOX,8P,2R,2mm,STRAIGHT,	
CN604	3711-003149	CONNECTOR-HEADER;BOX,6P,2R,2.0MM,STRAIGH	
D601	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D602	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D603	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D604	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D605	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41	
D606	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D607	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D608	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D609	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D6101	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D6105	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D6106	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D611	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D612	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D614	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D620	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
IC601	AC09-10458A	IC-MCU;HD6433977RF,100P,QFP,SV-B145XS	
IC602	AC09-10458B	IC-MCU;HD6433977RF,100P,QFP,SV-B145XT	
IC603	AC14-12001K	IC;KA324,-,-	
IC604	AC14-12006C	IC;KA7533,DIP,-	
IC605	1103-001101	IC-EEPROM;24C08,8Kx8BIT,DIP,8P,300MIL,-,	
IC606	1003-001090	IC-MOTOR DRIVER;LB1643,SIP,10P,-,SINGLE,	
IC607	AC14-12001G	IC;KA78L05,T,-	
L601	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L602	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L603	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L604	2701-000131	INDUCTOR-AXIAL;15UH,5%,2.4X3.4MM	
L6101	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L6103	2701-000117	INDUCTOR-AXIAL;10uH,5%,2.4x3.4mm	
L620	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
L621	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
LD601	0601-000495	LED-IR;ROUND,3mm,150mW,6V,950nm,BK	
PT601	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
PT602	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
Q601	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q602	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q604	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q605	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,80V,60V,700m	
Q6101	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q6102	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q6103	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	

Loc.No	Part No	Desc and Spec	Remark
Q6106	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q6108	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
R601	2007-001495	R-CHIP,MELF;510OHM,5%,1/8W,DB,BK,2012	
R602	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R603	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R604	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R605	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012	
R606	2001-000568	R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R608	2007-001637	R-CHIP,MELF;1.2Kohm,5%,1/8W,DB,BK,2012	
R609	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R610	2001-000347	R-CARBON;13Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6100	2001-000613	R-CARBON ;3.9K OHM,5%,1/8,AA,T	
R6101	2007-001629	R-CHIP,MELF;1.8Kohm,5%,1/8W,DB,BK,2012	
R6102	2007-001497	R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012	
R6103	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R6104	2001-000773	R-CARBON;470Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R6105	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6106	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012	
R6107	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R6109	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R611	2007-001625	R-CHIP,MELF;100ohm,5%,1/8W,DB,BK,3216	
R6110	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012	
R6111	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6112	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6115	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R6116	2007-007166	R-CHIP,MELF;91Kohm,5%,1/8W,DB,BK,2012	
R6117	2007-001490	R-CHIP,MELF;560KOHM,5%,1/8W,DB,BK,2012	
R6119	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R612	2001-000347	R-CARBON;13Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6120	2001-000435	R-CARBON;1Mohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6121	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6122	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6123	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012	
R6124	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6125	2007-001540	R-CHIP,MELF;30KOHM,5%,1/8W,DB,BK,2012	
R6128	2007-001563	R-CHIP,MELF;240ohm,5%,1/8W,DB,BK,2012	
R6129	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R613	2007-001625	R-CHIP,MELF;100ohm,5%,1/8W,DB,BK,3216	
R6130	2007-001570	R-CHIP,MELF;220ohm,5%,1/8W,DB,BK,2012	
R6131	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6132	2007-001563	R-CHIP,MELF;240ohm,5%,1/8W,DB,BK,2012	
R6133	2007-001570	R-CHIP,MELF;220ohm,5%,1/8W,DB,BK,2012	
R6134	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R614	2007-001572	R-CHIP,MELF;220Kohm,5%,1/8W,DB,BK,2012	
R615	2007-001572	R-CHIP,MELF;220Kohm,5%,1/8W,DB,BK,2012	
R616	2007-001495	R-CHIP,MELF;510OHM,5%,1/8W,DB,BK,2012	
R617	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R618	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R619	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R620	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R621	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R624	2007-001627	R-CHIP,MELF;100Kohm,5%,1/8W,DB,BK,2012	
R625	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R626	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012	
R627	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R628	2007-001572	R-CHIP,MELF;220Kohm,5%,1/8W,DB,BK,2012	
R629	2007-001572	R-CHIP,MELF;220Kohm,5%,1/8W,DB,BK,2012	
R630	2001-000435	R-CARBON;1Mohm,5%,1/8W,AA,TP,1.8x3.2mm	
R631	2001-000411	R-CARBON;18Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R632	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R633	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R634	2007-001612	R-CHIP,MELF;12Kohm,5%,1/8W,DB,BK,2012	
R635	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R637	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R638	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R640	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R641	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R642	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R643	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R644	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R645	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R646	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R647	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R648	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R649	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R651	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R652	2007-000615	R-CHIP;24Kohm,5%,1/10W,DA,TP,2012	
R653	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R654	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R655	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R656	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R657	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R658	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
R660	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R661	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R662	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R663	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R664	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R665	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R666	2007-001526	R-CHIP,MELF;36KOHM,5%,1/8W,DB,BK,2012	
R667	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R668	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R669	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R670	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012	
R671	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R673	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R676	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R679	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R681	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R682	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R683	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R685	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R686	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R687	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012	
R688	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R689	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R690	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R691	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R692	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R693	2001-000347	R-CARBON;13Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R694	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R695	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R696	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R697	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM	
RS601	3409-000176	SWITCH-DETECTOR;30Vdc,100mA,SPST,-,-	
S601	0603-000112	PHOTO-TR;NPN,35V,6V,50mA,75mW,-	
S602	0603-000112	PHOTO-TR;NPN,35V,6V,50mA,75mW,-	
SW601	AC34-22001E	SWITCH-PROGRAM;MXS00281MLB0,-,-,-,-,-,-	
XT601	2801-003293	CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,50O	
XT602	2801-003318	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAP,12.5	

Loc.No	Part No	Desc and Spec	Remark
XT603	2801-003293	CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,50O	
XT6102	2801-003311	CRYSTAL-UNIT;17.734475MHz,50ppm,28-AAA,1	
PRE-AMP PARTS			
C3P01	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C3P02	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P03	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3P04	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P06	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P07	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C3P08	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3P09	2401-001325	C-AL;470nF,20%,50V,GP,TP,3x5,5	
C3P11	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P13	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P14	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,1mm	
C3P15	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P16	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3P17	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P18	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C3P19	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3P20	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3P21	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,20	
C3P22	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,20	
C3P23	2203-001638	C-CERAMIC,CHIP MELF;36PF,5%,50V,SL,TP,20	
C3P24	2203-001638	C-CERAMIC,CHIP MELF;36PF,5%,50V,SL,TP,20	
C3P25	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
D3P01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D3P02	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
IC3P01	1201-001215	IC-PREAMP;70020,DIP,36P,400MIL,SINGLE,65	
IC3P02	AC14-12012K	IC;AN3370K,SIP,-	
L3P01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3P02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3P03	2701-000218	INDUCTOR-AXIAL;8.2UH,5%,2.4X3.4MM	
Q3P01	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q3P02	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
R3P01	2007-001637	R-CHIP,MELF;1.2Kohm,5%,1/8W,DB,BK,2012	
R3P02	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3P03	2007-001616	R-CHIP,MELF;120Kohm,5%,1/8W,DB,BK,2012	
R3P04	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3P05	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3P06	2007-001580	R-CHIP,MELF;2.4Kohm,5%,1/8W,DB,BK,2012	
R3P07	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R3P09	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R3P10	2007-001629	R-CHIP,MELF;1.8Kohm,5%,1/8W,DB,BK,2012	
R3P11	2007-001497	R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012	
R3P13	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R3P15	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3P16	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
AUDIO/VIDEO PARTS			
C301	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C302	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C318	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C320	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C321	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C322	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C324	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C325	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C326	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	

Loc.No	Part No	Desc and Spec	Remark
C327	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C328	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,20	
C330	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C331	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C332	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C333	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,TP,2012,	
C335	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,20	
C336	2203-001606	C-CERAMIC,CHIP MELF;220PF,10%,50V,Y5P,TP	
C337	2203-000540	C-CERAMIC,CHIP;200PF,5%,50V,NPO,TP,2012,	
C338	2203-001589	C-CERAMIC,CHIP MELF;18PF,5%,50V,SL,TP,20	
C339	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C340	2401-001968	C-AL;470NF,20%,50V,GP,TP,5X11MM,5	
C341	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C342	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C343	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C344	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C345	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C346	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C347	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C348	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C349	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C350	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C351	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C352	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C353	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C355	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C356	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C357	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C358	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C359	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C360	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C361	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C362	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C363	2203-001608	C-CERAMIC,CHIP;22nF,+80-20%,50V,Y5V,2012	
C364	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C366	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C367	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C368	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
C369	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
C370	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C371	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C374	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
C380	2401-001905	C-AL;10UF,20%,16V,BP,BK,6X11MM,2.5M	
C3A01	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C3A02	2301-000392	C-FILM,PEF;15nF,5%,50V,6.5x8.5x3.2mm,5mm	
C3A03	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3A04	2301-000299	C-FILM,PEF;6.8nF,5%,100V,TP,5.8x12.5mm,5	
C3A05	2301-000161	C-FILM,PEF;12nF,5%,50V,6.5X5.5X3.0X5,5mm	
C3A06	2301-000408	C-FILM,PEF;2.7nF,5%,50V,5.5x7x3mm,5mm,TP	
C3A07	2301-000402	C-FILM,PEF;1NF,5%,50V,TP,5X7X2.8MM,5MM	
C3A08	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C3A09	2401-003122	C-AL;4.7UF,20%,50V,LL,TP,4X7,1.5	
C3A10	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C3A11	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C3A12	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C3A13	2203-001537	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-	
C3A15	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C3A17	2202-000855	C-CERAMIC,MLC-AXIAL;6.8NF,30%,16V,Y5R,TP	
C3A18	2202-000855	C-CERAMIC,MLC-AXIAL;6.8NF,30%,16V,Y5R,TP	
C3A19	2202-000856	C-CERAMIC,MLC-AXIAL;8.2NF,30%,16V,Y5R,TP	

Loc.No	Part No	Desc and Spec	Remark
C3A21	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C3A22	2301-000217	C-FILM,PEF;220nF,5%,50V,8.0X9.5X4.5X5,5m	
C3A23	2401-001169	C-AL;33UF,20%,16V,GP,-,6.3X7,2.5MM	
C3A25	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C3A26	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C3A27	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C3A28	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C3A29	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C3A30	2301-000392	C-FILM,PEF;15nF,5%,50V,6.5x8.5x3.2mm,5mm	
C3D01	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C3D02	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3D03	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3D04	2301-000264	C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C3D05	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
CN301	3708-001160	CONNECTOR-FPC/FC/PIC;13P,1.25mm,STRAIGHT	
FL3A01	AC27-80100A	COIL-OSC;126QN-K5272YHC=K,-,AM	
FL3D01	AC27-82001C	COIL-BIAS OSC;B02,W(TOKO)VX1850,-	
IC301	1204-001057	IC-SIGNAL PROCESSOR;SS11511M,QFP,80P,-,	PAL ONLY
IC301	1204-001056	IC-SIGNAL PROCESSOR;SS11501M,QFP,80P,-,	MULTI
IC303	1209-001023	IC-DELAY LINE;SS23377M,SOP,14P,225MIL,PL	PAL ONLY
IC303	1209-001024	IC-DELAY LINE;SS23378M,SOP,14P,225MIL,PL	MULTI
L302	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L303	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L304	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L308	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A03	2702-000120	INDUCTOR-RADIAL;15mH,5%,6.2x7.4mm	
L3A04	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3D01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q302	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q303	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q304	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q306	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q307	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q308	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q309	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q310	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q312	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A01	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A02	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A03	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,80V,60V,700m	
Q3A04	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3A05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A06	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q3D01	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,80V,60V,700m	
Q3D02	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q3D03	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
R307	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012	
R309	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R310	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R311	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R312	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R313	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R315	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R316	2007-001482	R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012	
R317	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R318	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R319	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R320	2007-001637	R-CHIP,MELF;1.2Kohm,5%,1/8W,DB,BK,2012	
R321	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012	
R322	2007-001633	R-CHIP,MELF;1.5Kohm,5%,1/8W,DB,BK,2012	
R323	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R324	2007-001633	R-CHIP,MELF;1.5Kohm,5%,1/8W,DB,BK,2012	
R325	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R326	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R327	2007-001633	R-CHIP,MELF;1.5Kohm,5%,1/8W,DB,BK,2012	
R328	2007-001637	R-CHIP,MELF;1.2Kohm,5%,1/8W,DB,BK,2012	
R329	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012	
R331	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012	
R332	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R333	2007-001458	R-CHIP,MELF;8.2KOHM,5%,1/8W,DB,BK,2012	
R335	2007-001616	R-CHIP,MELF;120Kohm,5%,1/8W,DB,BK,2012	
R337	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R338	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R339	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R340	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012	
R341	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R350	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R399	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R3A02	2001-000405	R-CARBON ;180 OHM,5%,1/8W,AA,T	
R3A03	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R3A04	2007-001612	R-CHIP,MELF;12Kohm,5%,1/8W,DB,BK,2012	
R3A05	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012	
R3A06	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012	
R3A07	2001-000458	R-CARBON;2.2ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A08	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A09	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A10	2007-001633	R-CHIP,MELF;1.5Kohm,5%,1/8W,DB,BK,2012	
R3A11	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R3A12	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A13	2007-000778	R-CHIP;330Kohm,5%,1/10W,DA,TP,2012	
R3A15	2007-001612	R-CHIP,MELF;12Kohm,5%,1/8W,DB,BK,2012	
R3A16	2007-001612	R-CHIP,MELF;12Kohm,5%,1/8W,DB,BK,2012	
R3A17	2007-001497	R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012	
R3A19	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A22	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A24	2001-000454	R-CARBON;2.2Mohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A25	2007-001482	R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012	
R3A27	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R3A28	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012	
R3A29	2007-001580	R-CHIP,MELF;2.4Kohm,5%,1/8W,DB,BK,2012	
R3A30	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R3A31	2001-000613	R-CARBON ;3.9K OHM,5%,1/8,AA,T	
R3A32	2001-000904	C-CARBON ;620OHM,5%,1/8,AA.TP,	
R3D01	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3D02	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3D03	2001-000745	R-CARBON;4.7ohm,5%,1/8W,AA,TP,1.8x3.2mm	
W305	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
XT301	2801-001397	CRYSTAL-UNIT;4.433619MHZ,HC-49/U-S 15PPM	
HI-FI PARTS			
C501	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C502	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C503	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C504	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C505	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C506	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C507	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C508	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C509	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	

Loc.No	Part No	Desc and Spec	Remark
C510	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C511	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C512	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C513	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C514	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,1mm	
C515	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C516	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C517	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C518	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
C519	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2	
C520	2203-001122	C-CERAMIC,CHIP;680PF,10%,50V,NPO,TP,2012	
C521	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2	
C522	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C523	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C524	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C525	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C526	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C527	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C528	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C529	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C530	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C531	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C532	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C533	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C534	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C535	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
IC501	1204-001162	IC-AUDIO PROCESSOR;TA1246F,QFP,48P,16MIL	
L501	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L502	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
R501	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R502	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R503	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R504	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R505	2007-001603	R-CHIP,MELF;150ohm,5%,1/8W,DB,BK,2012	
R506	2007-001603	R-CHIP,MELF;150ohm,5%,1/8W,DB,BK,2012	
R507	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R508	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R509	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R510	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R511	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012	
R512	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R513	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012	
R514	2007-001612	R-CHIP,MELF;12Kohm,5%,1/8W,DB,BK,2012	
R515	2001-000007	R-CARBON;3Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R516	2007-001474	R-CHIP,MELF;680OHM,5%,1/8W,DB,BK,2012	
R517	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R518	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R519	2007-001574	R-CHIP,MELF;20Kohm,5%,1/8W,DB,BK,2012	
R520	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R521	2007-001580	R-CHIP,MELF;2.4Kohm,5%,1/8W,DB,BK,2012	
R522	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R523	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R524	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R525	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R526	2007-001526	R-CHIP,MELF;36KOHM,5%,1/8W,DB,BK,2012	
R527	2007-001555	R-CHIP,MELF;27Kohm,5%,1/8W,DB,BK,2012	
R528	2007-001526	R-CHIP,MELF;36KOHM,5%,1/8W,DB,BK,2012	
R529	2007-001555	R-CHIP,MELF;27Kohm,5%,1/8W,DB,BK,2012	
R530	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R531	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R532	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R533	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012	
R534	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	

IF PARTS

C401	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5
C402	2401-001364	C-AL;470UF,20%,16V,GP,TP,10X12MM,5M
C403	2401-001085	C-AL;330NF,20%,50V,GP,-,5X9,2MM
C404	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5
D410	0402-000132	DIODE-RECTIFIER ;1N4004,400V,1A,DO-41
L401	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-
L415	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,
Q401	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T
R401	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012
R402	2007-001568	R-CHIP,MELF;22Kohm,5%,1/8W,DB,BK,2012
R403	2007-001589	R-CHIP,MELF;1Kohm,5%,1/8W,DB,BK,2012
R404	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm
R405	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm
R406	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm
R407	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm
R408	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm
ZD401	0403-000390	DIODE-ZENER;UZP33B,33V,31.4-34.6V,1W,DO-
TM401	Refer to table below	TM-BLOCK

Country	Part No	Specification
France	AC40-30071E	TMBG1-107A,SECAM-L/BG,126
U.K.	AC40-30071D	TMLB1-101A,PAL-I,48
West Europe	AC40-30071C	TMBG1-105A,PAL-B/G,126
East Europe Australia/Middle East Asia	AC40-30071K	TMLG1-308A,PAL-D/K,126

VPS/PDC PARTS

C6P01	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5
C6P02	2203-001577	C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP
C6P03	2401-001074	C-AL;330NF,20%,50V,GP,TP,4X5,2.5MM
C6P05	2203-001608	C-CERAMIC,CHIP;22nF,+80-20%,50V,Y5V,2012
C6P06	2203-000802	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,2012,
C6P07	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,
IC6P01	1204-001287	IC-DECODER;SDA5650,DIP,14P,-,PLASTIC,6V,
R6P01	2007-001625	R-CHIP,MELF;100ohm,5%,1/8W,DB,BK,3216
R6P02	2007-001625	R-CHIP,MELF;100ohm,5%,1/8W,DB,BK,3216
R6P05	2007-001627	R-CHIP,MELF;100Kohm,5%,1/8W,DB,BK,2012
R6P06	2007-001586	R-CHIP,MELF;1Mohm,5%,1/8W,DB,BK,2012
R6P07	2007-000225	R-CHIP;1.2Mohm,5%,1/10W,DA,TP,2012
R6P08	2007-001482	R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012
R6P09	2007-000225	R-CHIP;1.2Mohm,5%,1/10W,DA,TP,2012
R6P10	2007-001482	R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012
R6P11	2007-001584	R-CHIP,MELF;2.2Kohm,5%,1/8W,DB,BK,2012
R6P12	2007-001623	R-CHIP,MELF;10Kohm,5%,1/8W,DB,BK,2012

I/O (RCA) PARTS

C802	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-
C804	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5
C815	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5
C818	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5
C820	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5
C821	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM
C822	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5
C823	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM
C824	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,

Loc.No	Part No	Desc & Spec	Remark
C825	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C829	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C831	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C832	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C833	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C834	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C835	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C836	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C850	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
D801	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D802	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D803	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D804	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D806	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D807	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D808	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D815	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5	
JC802	AC37-20001E	JACK-RCA;DPAE-9606,6P,HIFI,PI3.3	
L801	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L802	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L816	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q802	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q803	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R807	2007-001239	R-CHIP;910ohm,5%,1/10W,DA,TP,2012	
R808	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R811	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R812	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R813	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R814	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R815	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R816	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R817	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R822	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R823	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
SW801	3408-000127	SWITCH-SLIDE;12V,100MA,-,-	
I/O (1 SCART) PARTS			
C802	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C804	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C815	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C818	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C820	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C821	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C822	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C823	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C824	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C825	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C829	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C831	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C832	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C833	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C834	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C835	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C836	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C850	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
D801	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D802	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D803	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D804	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	

Loc.No	Part No	Desc & Spec	Remark
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D806	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D807	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D808	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D815	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5	
D821	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D822	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
JC801	3710-000482	CONNECTOR-SOCKET;21P,-,-,ANGLE,SN	
JC802	AC37-22002E	JACK-PIN;3.5MM,DPAE9634,2P,TR,-	
L801	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L802	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L803	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L804	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L805	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L806	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L807	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L808	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L809	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L810	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L816	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q802	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q803	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q811	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q812	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q813	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
R807	2007-001239	R-CHIP;910ohm,5%,1/10W,DA,TP,2012	
R808	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R811	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R812	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R813	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R814	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R815	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R816	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R817	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R822	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R823	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R835	2004-001290	R-METAL;820ohm,5%,1/4W,AA,TP,2.4x6.4mm	
SW801	3408-000127	SWITCH-SLIDE;12V,100MA,-,-	
I/O (2 SCART) PARTS			
C801	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C802	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C803	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C804	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C805	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C806	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C807	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C808	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C809	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C810	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C811	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C812	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C813	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C814	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C815	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C816	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C817	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C818	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C820	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	

Loc.No	Part No	Desc & Spec	Remark
C821	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C822	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C823	2401-002197	C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM	
C824	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C825	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C828	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C829	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C830	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C831	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C832	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C833	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C834	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C835	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C836	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C837	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C838	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C839	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C840	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C841	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP	
C842	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C843	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,TP,20	
C844	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C845	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2	
C847	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C848	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,	
C850	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C851	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2	
C852	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2	
C853	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2	
C854	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2	
C860	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
D801	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D802	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D803	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D804	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D806	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D807	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D808	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D809	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D810	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D811	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D812	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D813	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D814	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D815	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D817	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D818	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
IC801	1001-001026	IC-RF/VI/AUDIO S/W;KA8119BDTF,CMOS,S0P,3	
IC802	1001-001045	IC-VIDEO SWITCH;LA7152,3-INPUT,SIP,9P,-,	
IC803	AC14-12012R	IC;LA7151,DIP,-	
JC801	3722-001093	JACK-RCA;42P,3.81MM,SN,BLU/BLK,#20-28	
JC802	AC37-22002E	JACK-PIN;3.5MM,DPAE9634,2P,TR,-	
L801	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L802	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L803	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L804	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L805	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L806	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L807	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L808	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L809	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L810	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L811	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L812	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L813	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L815	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L816	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q802	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q803	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q804	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q808	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q809	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q810	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q811	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q812	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q813	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
R802	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R804	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R805	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R807	2007-001239	R-CHIP;910ohm,5%,1/10W,DA,TP,2012	
R808	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R811	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R812	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R813	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R814	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R815	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R816	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R817	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R822	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R823	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R826	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R827	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R828	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R829	2007-001557	R-CHIP,MELF;270ohm,5%,1/8W,DB,BK,2012	
R830	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R833	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R834	2004-001096	R-METAL;560ohm,5%,1/4W,AA,TP,2.4X6.4mm	
R835	2004-001290	R-METAL;820ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R836	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R837	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
	-	**ASSY-SUB(A2/NICAM);SV-717F/617F,**	**S.N.A**
C4L01	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L02	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L03	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L04	2202-000787	C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3	
C4L05	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L06	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L07	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L08	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4L09	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4L10	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4L11	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4L12	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4L13	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4L14	2202-000794	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.	
C4L16	2401-001169	C-AL;33UF,20%,16V,GP,-,6.3X7,2.5MM	
C4L17	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4L18	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	

Loc.No	Part No	Desc & Spec	Remark
C4L19	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4L20	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4L21	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4L30	2202-000787	C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3	
C4N01	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	
C4N02	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N03	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y5P,TP	
C4N04	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4N05	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4N06	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4N07	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N08	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	
C4N09	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N10	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N11	2401-001019	C-AL;3.3UF,20%,50V,GP,-,5X7,1.5MM	
C4N12	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N13	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N14	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N15	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N16	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4N17	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N19	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C4N21	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N22	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N27	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N28	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N29	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N30	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N31	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N50	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N70	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C4N71	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
CN4N01	3711-003177	CONNECTOR-HEADER;NOWALL,15P,1R,2.5mm,ANG	
D4L01	0401-000156	DIODE-SWITCHING;1SS110,35V,100mA,DO-34,T	
D4L02	0401-000156	DIODE-SWITCHING;1SS110,35V,100mA,DO-34,T	
D4L03	0401-000156	DIODE-SWITCHING;1SS110,35V,100mA,DO-34,T	
D4L04	0401-000156	DIODE-SWITCHING;1SS110,35V,100mA,DO-34,T	
D4N01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D4N04	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
FL4L01	B1245-0060	FILTER-SAW;K9453M SECAM SIF	
FL4L02	2903-000178	FILTER-CERAMIC;BP,5.5MHz,-,-,-,TP,-	
FL4L03	2903-000199	FILTER-CERAMIC;TR,6.5MHz,70KHz,-,-,TP,-	
FL4N01	2904-001016	FILTER-SAW AV;38.9MHz,SIP5K,TP,15.3dB,PA	
IC4L01	1209-000218	IC;TDA98145 SOP STICK DEMOD	
IC4N01	AC14-10001D	IC;MSP3415D,DIP,52P,47*15.6,PLAST	
L4L01	AC27-12001U	COIL-PEAKING;EL0606RA 1.3UH-K	
L4L02	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L4L03	2701-000218	INDUCTOR-AXIAL;8.2UH,5%,2.4X3.4MM	
L4L05	2701-000145	INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM	
L4L50	2701-000122	INDUCTOR-AXIAL;12uH,5%,2.4x3.4mm	
L4N01	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N02	2702-000108	INDUCTOR-RADIAL;100uH,5%,6x6.4mm	
L4N03	2701-000188	INDUCTOR-AXIAL;4.7UH,5%,2.4X3.4MM	
L4N04	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
L4N06	2702-000170	INDUCTOR-RADIAL;560nH,20%,6x6.4mm	
L4N07	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
Q4L01	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625mW,TO-92,	
Q4L02	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q4L03	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q4L04	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	

Loc.No	Part No	Desc & Spec	Remark
Q4L05	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q4N01	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625mW,TO-92,	
R4L01	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L02	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4L03	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L04	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L05	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L06	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L07	2001-000605	R-CARBON;3.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L08	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R4L09	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L10	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L11	2001-000006	R-CARBON;2.4Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L12	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L13	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L14	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L15	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L16	2001-000405	R-CARBON ;180 OHM,5%,1/8W,AA,T	
R4L17	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L18	2001-000008	R-CARBON;15Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L19	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L20	2001-000679	R-CARBON;36KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R4L21	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L22	2001-000674	R-CARBON;360ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4L23	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4L24	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N01	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N02	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N03	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N04	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N05	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N06	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N18	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N19	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N20	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4N22	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4N23	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TL4L01	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
VR4L01	61247-102-223	VR-SEMI;EVN-DCY A03 BE4 TAPG 22KB	
VR4L02	61247-102-223	VR-SEMI;EVN-DCY A03 BE4 TAPG 22KB	
XT4N01	2801-003171	CRYSTAL-UNIT;18.432MHz,20PPM,28-AAM,4PF,	
	-	**ASSY-SUB; A2 ONLY**	**S.N.A**
C4A01	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4A02	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4A03	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4A04	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4A05	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4A06	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4A07	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4A08	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4A09	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C4A10	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4A11	2301-000439	C-FILM,PEF;3NF,5%,50V,TP,5.5X7X3MM,5MM	
C4A12	2301-000439	C-FILM,PEF;3NF,5%,50V,TP,5.5X7X3MM,5MM	
C4A13	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4A14	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4A15	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4A16	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4A17	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	

Loc.No	Part No	Desc & Spec	Remark
C4A18	2401-000778	C-AL;220uF,20%,10V,GP,-,6.3x11,2.5m	
C4A19	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4A20	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4A21	2301-000427	C-FILM,PEF;3.9NF,10%,50V,TP,5.5X7X3MM,5M	
C4A22	2301-000264	C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C4A24	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4A25	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
CN4A01	3711-003177	CONNECTOR-HEADER;NOWALL,15P,1R,2.5mm,ANG	
FL4A01	2904-001024	FILTER-SAW AV;38.9MHz,SIP5K,TP,18.3dB,PA	
FL4A02	2903-000188	FILTER-CERAMIC;BP,5.74MHz,+-50KHz,9dB,-,	
IC4A01	AC14-12011Q	IC-LINEAR;TDA9800,DIP,NEG DEMOD	
IC4A02	AC14-12011Y	IC-LINEAR;TDA9840/V2,DIP,TV-AUDIO DECODE	
L4A01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4A02	AC27-12001U	COIL-PEAKING;EL0606RA 1.3UH-K	
L4A03	2702-000214	INDUCTOR-RADIAL;2.2mH,5%,6x6.4x10mm	
Q4A01	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625mW,TO-92,	
Q4A02	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250mW,TO-92	
R4A01	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A02	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A03	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A04	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4A05	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A06	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A07	2001-001006	R-CARBON;82ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A08	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A12	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A13	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A14	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A15	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A16	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A18	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A19	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A20	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A21	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R4A22	2001-000613	R-CARBON ;3.9K OHM,5%,1/8,AA,T	
R4A23	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A24	2001-000337	R-CARBON;130Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4A25	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
TL4A01	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
W4A12	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
W4A13	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
W4A14	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
XT4A01	2801-003293	CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,50O	
	-	**ASSY-SUB; A2+NICAM**	**S.N.A**
C4A01	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4A02	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4A03	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4A04	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4A06	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4A07	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4N01	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	
C4N02	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N03	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y5P,TP	
C4N04	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C4N05	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4N06	2301-000383	C-FILM,PEF;10nF,5%,50V,6x7x3.2mm,5mm,TP	
C4N07	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N08	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	

Loc.No	Part No	Desc & Spec	Remark
C4N09	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N10	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N11	2401-001019	C-AL;3.3UF,20%,50V,GP,-,5X7,1.5MM	
C4N12	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N13	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N14	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C4N15	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C4N16	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4N17	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N19	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C4N27	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N28	2202-000822	C-CERAMIC,MLC-AXIAL;56PF,5%,50V,SL,TP,3.	
C4N29	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N30	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N31	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C4N50	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N70	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C4N71	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
CN4N01	3711-003177	CONNECTOR-HEADER;NOWALL,15P,1R,2.5mm,ANG	
D4N01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D4N04	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
FL4A01	2904-001024	FILTER-SAW AV;38.9MHz,SIP5K,TP,18.3dB,PA	
IC4A01	AC14-12011Q	IC-LINEAR;TDA9800,DIP,NEG DEMOD	
IC4N01	AC14-10001D	IC;MSP3415D,DIP,52P,47*15.6,PLAST	
L4N01	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N02	2702-000108	INDUCTOR-RADIAL;100uH,5%,6x6.4mm	
L4N03	2701-000188	INDUCTOR-AXIAL;4.7UH,5%,2.4X3.4MM	
L4N06	AC27-12001U	COIL-PEAKING;EL0606RA 1.3UH-K	
L4N07	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
Q4N01	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625mW,TO-92,	
R4A01	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A02	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A03	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4A04	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4N01	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N02	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N03	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N04	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N05	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N06	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N18	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4N19	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N20	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R4N21	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N22	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4N23	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TL4A01	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
XT4N01	2801-003171	CRYSTAL-UNIT;18.432MHz,20PPM,28-AAM,4PF,	
	-	**ASSY-SUB(SECAM);SV-717F/617F Only**	**S.N.A**
C3S01	2201-000376	C-CERAMIC,DISC;220pF,5%,50V,SL,TP,4x4,5	
C3S02	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C3S03	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C3S04	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C3S05	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C3S06	2201-000803	C-CERAMIC,DISC;150PF,5%,50V,SL,TP,5X3,5	
C3S07	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3S08	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C3S09	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	

Loc.No	Part No	Desc & Spec	Remark
C3S10	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S11	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S12	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S13	2401-001965	C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM	
C3S14	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C3S15	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C3S16	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
C3S17	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S19	2201-000823	C-CERAMIC,DISC;270PF,5%,50V,SL,TP,5X3,5	
C3S20	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C3S21	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C3S22	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S23	2201-000854	C-CERAMIC,DISC;51PF,5%,50V,CH,TP,6.5X3,5	
C3S25	2201-000198	C-CERAMIC,DISC;10pF,0.5pF,50V,SL,4x3.5mm	
C3S26	2201-000681	C-CERAMIC,DISC;82pF,5%,50V,SL,TP,5x3,5	
C3S27	2201-000863	C-CERAMIC,DISC;680pF,10%,50V,Y5P,TP,5x3,	
C3S30	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
CN3S01	3711-003177	CONNECTOR-HEADER;NOWALL,15P,1R,2.5mm,ANG	
D3S01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
IC3S01	1204-001058	IC-SIGNAL PROCESSOR;LA7337,DIP,28P,400MI	
L3S01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3S02	2702-000179	INDUCTOR-RADIAL;6.8uH,5%,6x6.4mm	
L3S03	2702-000144	INDUCTOR-RADIAL;27uH,5%,6x6.4mm	
L3S04	2701-000195	INDUCTOR-AXIAL;47UH,5%,2.4X3.4MM	
L3S05	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
Q3S01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3S02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3S03	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q3S04	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3S05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R3S01	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S02	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S03	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S04	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S05	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S06	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S08	2001-000613	R-CARBON ;3.9K OHM,5%,1/8,AA,T	
R3S09	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S10	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S11	2001-000837	R-CARBON;51Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S12	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S13	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S14	2001-000890	R-CARBON;6.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S15	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3S16	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S17	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S18	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S19	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S20	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S21	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R3S22	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S23	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S24	2001-000319	R-CARBON;120Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S25	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
	-	**ASSY-F/TIMER;SV-717X/715X/717F/717B/B161B/SVR-715**	
C701	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C703	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C704	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	

Loc.No	Part No	Desc & Spec	Remark
C705	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C706	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V	
C707	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X1	
C708	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C709	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C710	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C711	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C712	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C713	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C714	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C715	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C716	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C717	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C718	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
CN701	3710-000545	CONNECTOR-SOCKET;20P,1R,1.5MM,STRAIGHT,S	
D702	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D703	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D705	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D707	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D708	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D709	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D714	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D715	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D716	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D721	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D725	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D733	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D734	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D735	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D736	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D737	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D738	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D739	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D741	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D742	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D743	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D744	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D745	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D746	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D747	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D748	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D749	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
DT701	AC07-20050Z	VF-DISPLAY;SVV-11MS16,15 SEG,118.2 X 20.	
IC701	1003-001039	IC-VFD;UPD16311GC-AB6,QFP,52P,-,-,-40	
JK701	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JK702	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JK703	3722-000433	JACK-PIN;1P/1C,PI3.3,SN,YEL,-	
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L703	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L704	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L705	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD701	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD702	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD703	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD704	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD705	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD706	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD707	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD708	0601-000497	LED;ROUND,GRN,3mm,565nm	

Loc.No	Part No	Desc & Spec	Remark
LD709	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD710	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD711	0601-000497	LED;ROUND,GRN,3mm,565nm	
LD712	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
LD713	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
LD715	0601-001204	LED-IR;ROUND,4.9mm,140mW,5V,940nm,-	
Q701	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q702	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
Q703	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q704	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
R701	2004-000292	R-METAL;12ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R702	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R703	2004-000790	R-METAL;330ohm,5%,1/4W,AA,TP,2.4	
R704	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R706	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R707	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R708	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R709	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R710	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R711	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R712	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R713	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R714	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R715	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R716	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R717	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R718	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R719	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R720	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R721	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R722	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R726	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R727	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R728	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R729	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R730	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R731	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R732	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R733	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R734	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R735	2001-000003	R-CARBON ;330 OHM,5%,1/8W,AA,T	
R736	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R737	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R738	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R/SHARP 38KHZ	
SW701	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW702	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW703	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW704	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW705	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW706	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW707	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW708	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW709	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW710	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW711	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW712	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW713	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW714	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW715	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW716	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
ZD701	0403-000357	DIODE-ZENER;UZ5.6BM,5.6V,5.4-5.8V,500mW,	
ZD702	0403-000555	DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500m	
	-	**ASSY-F/TIMER;SV-B617X/615X/617F/617B/615B/615G/B140G/SVR-615**	
C701	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C703	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C704	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C705	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C706	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V	
C707	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X1	
C708	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C709	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C710	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C711	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C712	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C713	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C714	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C715	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C716	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7mm,5	
C717	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C718	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
CN701	3710-000545	CONNECTOR-SOCKET;20P,1R,1.5MM,STRAIGHT,S	
D702	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D703	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D705	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D707	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D708	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D709	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D714	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D715	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D716	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D719	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D725	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D736	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D737	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D738	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D739	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D740	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D741	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D742	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
D743	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,500mW,	
DT701	AC07-20050Z	VF-DISPLAY;SVV-11MS16,15 SEG,118.2 X 20.	
IC701	1003-001039	IC-VFD;UPD16311GC-AB6,QFP,52P,-,-,-40	
JK701	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JK702	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JK703	3722-000433	JACK-PIN;1P/1C,PI3.3,SN,YEL,-	
JS701	3406-001015	SWITCH-ROTARY;5V,10MA,DP5T,9.1MM	
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L703	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L704	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L705	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD701	0601-001204	LED-IR;ROUND,4.9mm,140mW,5V,940nm,-	
LD702	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
LD703	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
Q701	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q702	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	

Loc.No	Part No	Desc & Spec	Remark
R701	2004-000292	R-METAL;12ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R702	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R703	2004-000790	R-METAL;330ohm,5%,1/4W,AA,TP,2.4	
R704	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R705	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R706	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R707	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R708	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R709	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R710	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R711	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R712	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R713	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R714	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R715	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R716	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R717	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R718	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R719	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R721	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R722	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R726	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R727	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R728	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R729	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R730	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R731	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R732	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R733	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R734	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R/SHARP 38KHZ	
SW701	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW703	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW704	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW705	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW706	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW707	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW709	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW710	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW711	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW712	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
SW715	3404-001008	SWITCH-TACT;12V,20mA,160+-50,6x7.9x3.5mm	
ZD701	0403-000357	DIODE-ZENER;UZ5.6BM,5.6V,5.4-5.8V,500mW,	
ZD702	0403-000555	DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500m	

Loc.No	Part No	Desc & Spec	Remark
	Refer to table below	**REMOCON-ASSY**	
	Refer to table below	DOOR-BATTERY REMOCON	

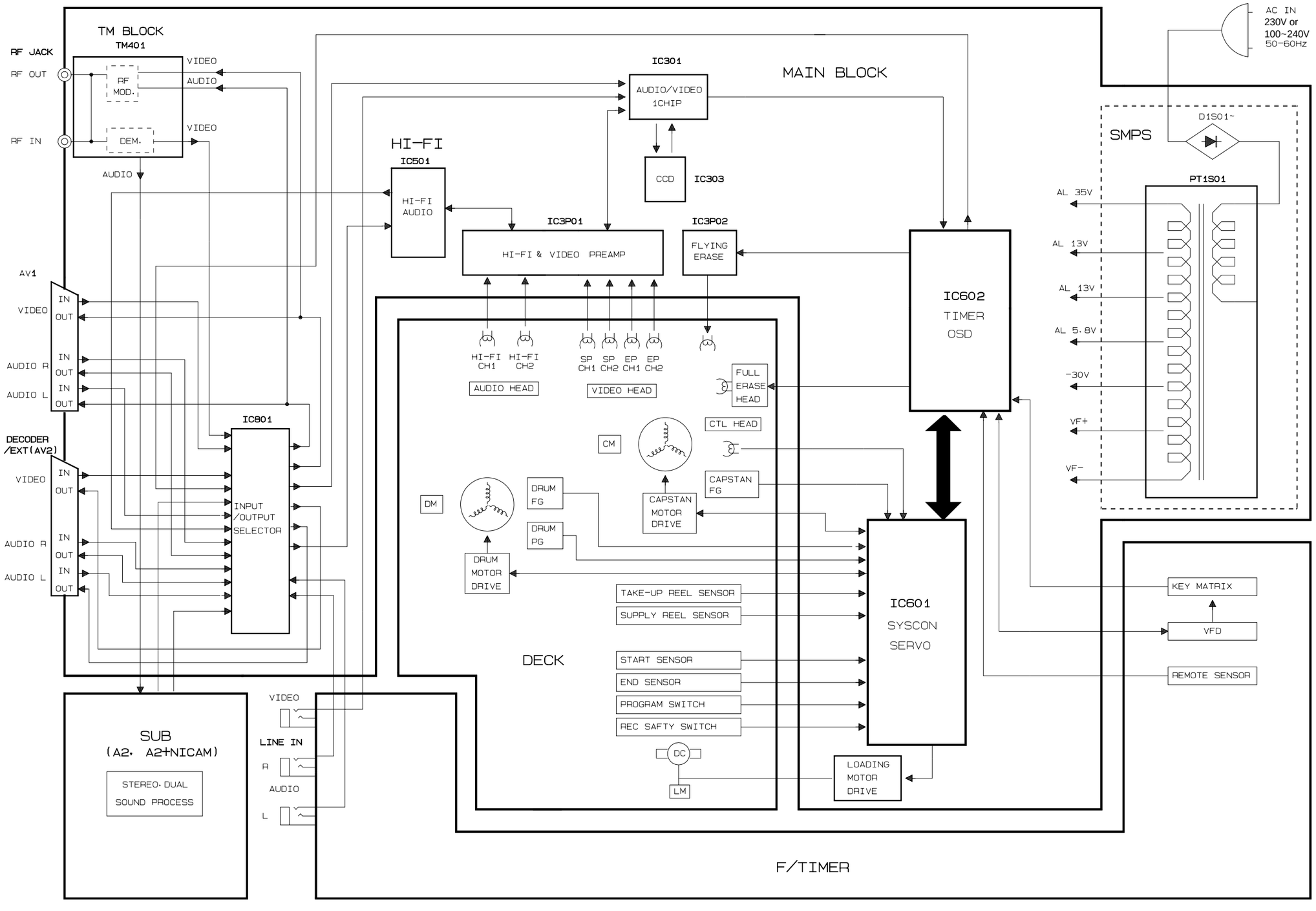
COUNTRY	MODELS	REMOCON-ASSY	DOOR-BATTERY
GERMANY	SV-717X	AC59-10340S	AC64-50131A
	SV-617X	AC59-10343Z	AC64-50953A
	SV-615X	AC59-10329Z	AC64-50953A
FRANCE	SV-717F	AC59-10340S	AC64-50131A
	SV-617F	AC59-10343Y	AC64-50953A
U.K	SV-717B	AC59-10340T	AC64-50131A
	SV-617B	AC59-10343X	AC64-50953A
	SV-615B	AC59-10346A	AC64-50953A
SPAIN	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
ITALY	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
PORTUGAL	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
SWEDEN/NORWAY/	SV-700XK	AC59-10340G	AC64-50131A
FINLAND	SV-615X	AC59-10329Z	AC64-50953A
SWITZERLAND	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
AUSTRIA	SV-700XK	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
GREECE	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
NETHERLANDS	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
BELGIUM	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
DENMARK	SV-715X	AC59-10340G	AC64-50131A
	SV-615X	AC59-10329Z	AC64-50953A
CIS	SVR-715	AC59-10340G	AC64-50131A
	SVR-615	AC59-10329J	AC64-50953A
RUSSIS	SVR-715	AC59-10340G	AC64-50131A
	SVR-615	AC59-10329J	AC64-50953A
AUSTRALIA	SV-B160B	AC59-10340P	AC64-50131A
CROATIA	SV-615X	AC59-10329Z	AC64-50953A
SOLOVENIA	SV-615X	AC59-10329Z	AC64-50953A
CZECHO	SV-615G	AC59-10344A	AC64-50953A
HUNGARY	SV-615G	AC59-10344A	AC64-50953A
POLAND	SV-615G	AC59-10329Z	AC64-50953A
BULGARIA	SV-615G	AC59-10344A	AC64-50953A
ROMANIA	SV-615G	AC59-10344A	AC64-50953A
ISRAEL	SV-B140G	AC59-10329J	AC64-50953A

MEMO

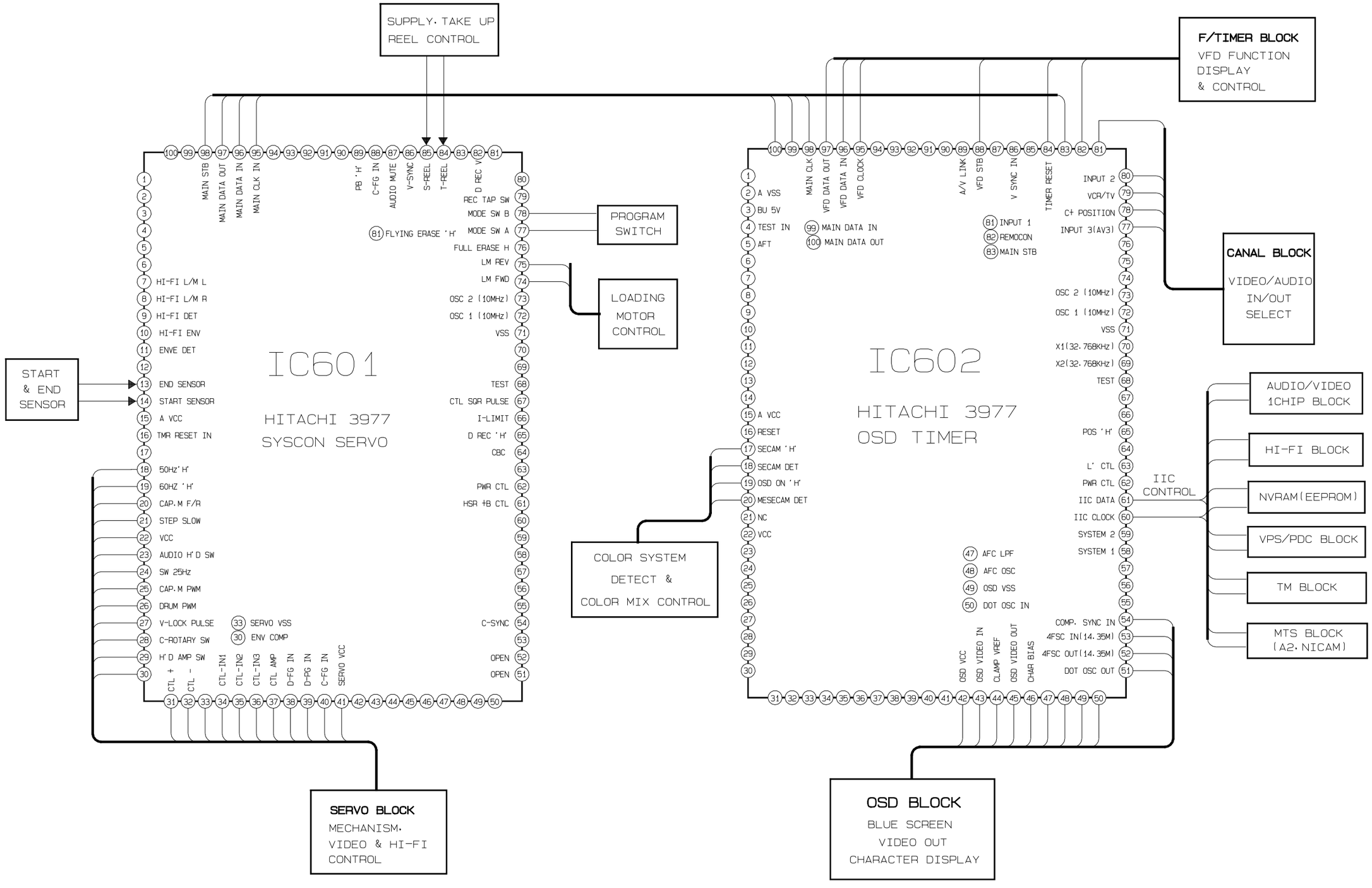
8. Block Diagrams

		Page
8-1	Overall Block Diagram	8-2
8-2	System Control	8-3
8-3	Video	8-4
8-4	Hi-Fi Audio	8-5
8-5	Function-Timer	8-6

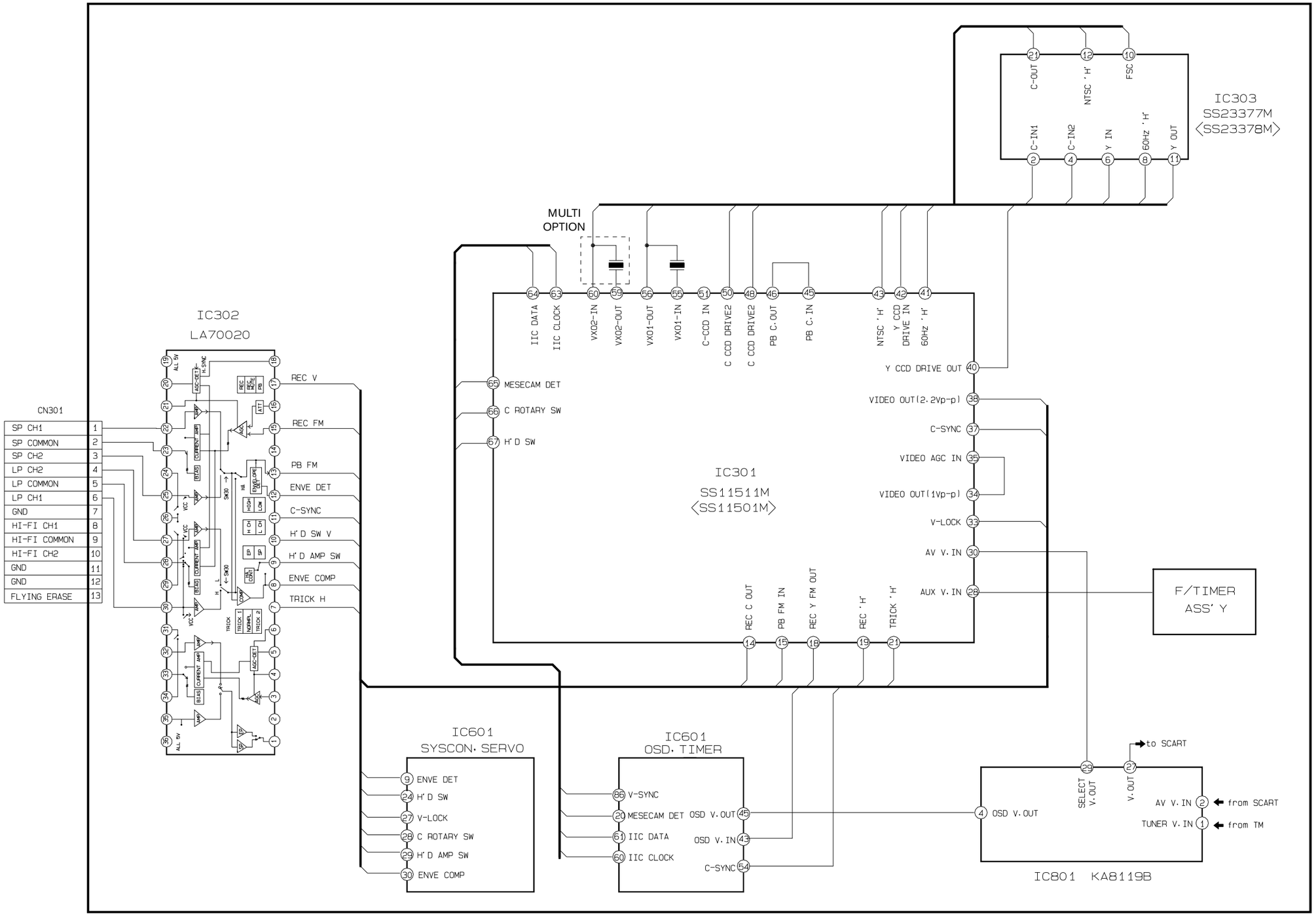
8-1 Overall Block Diagram(Reference : SV-615X)



8-2 System Control



8-3 Video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〈SS23378M〉
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FSC
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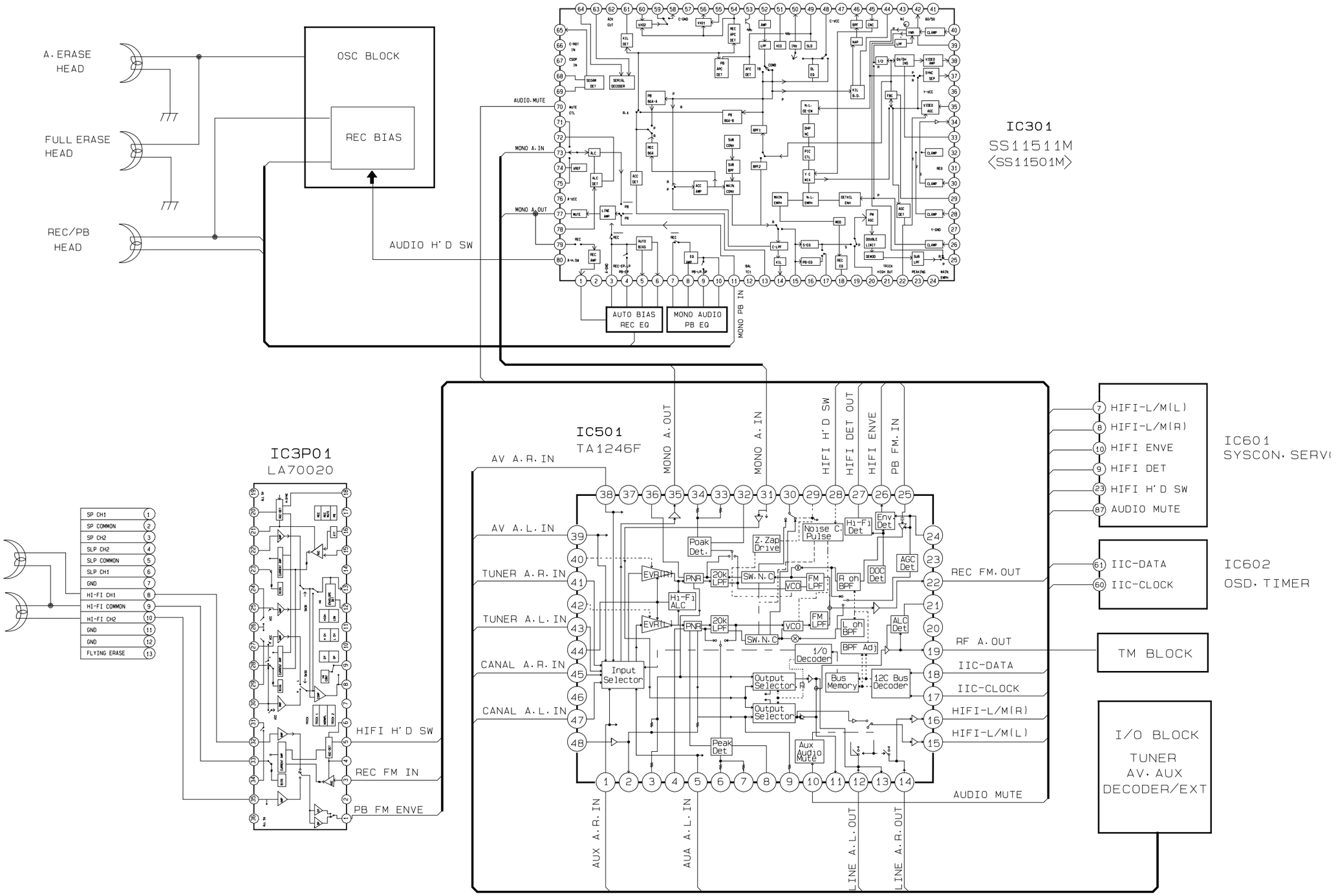
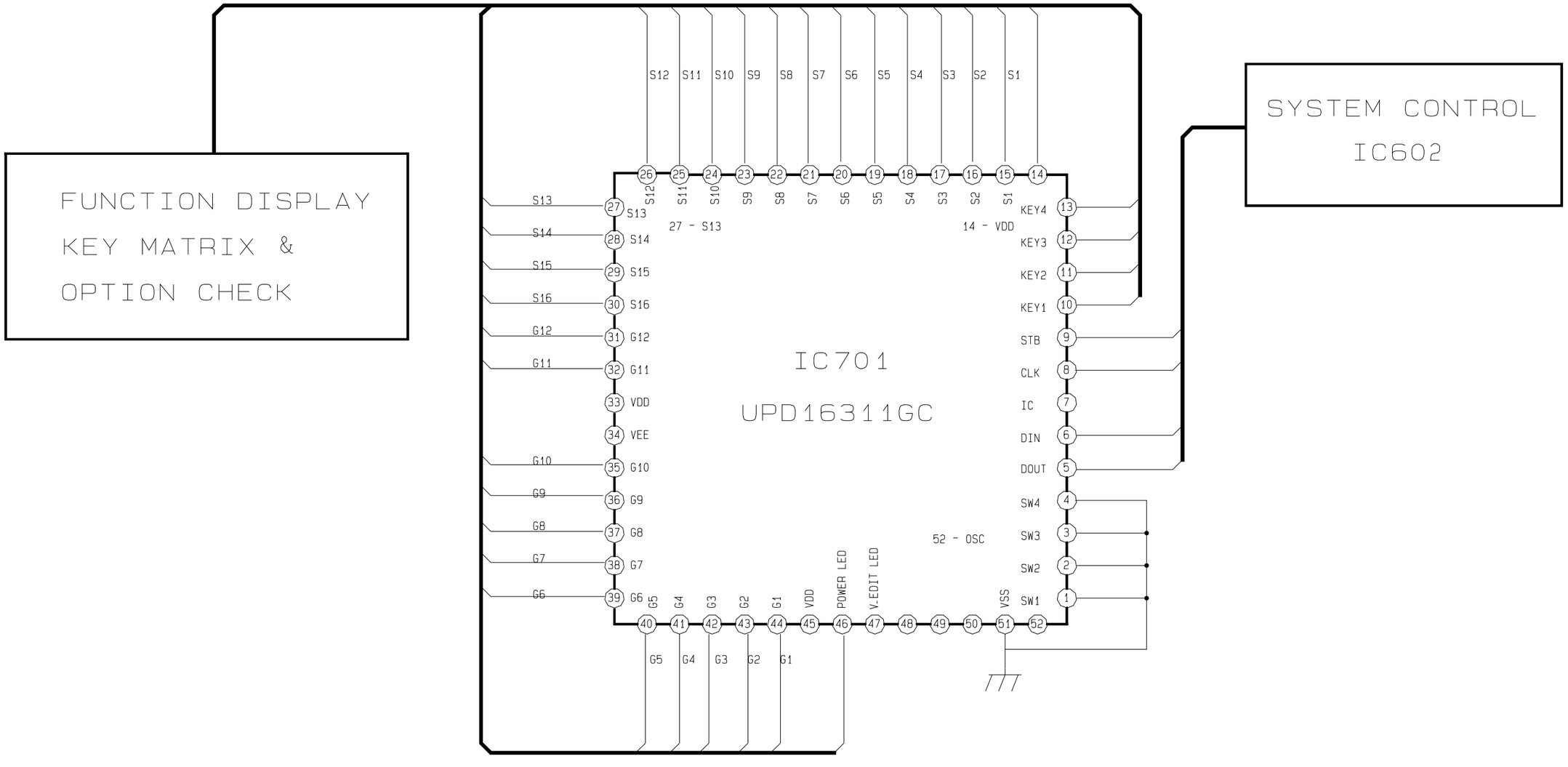
C-IN2
Y IN
60Hz 'H'
Y OUT
MULTI
OPTION
IIC DATA
IIC CLOCK
VXO2-IN
VXO2-OUT
VXO1-OUT
VXO1-IN
C-CCD IN
C CCD DRIVE2
C CCD DRIVE2
PB C.OUT
PB C.IN
NTSC 'H'
Y CCD DRIVE IN
60Hz 'H'
Y CCD DRIVE OUT
VIDEO OUT(2.2Vp-p)
C-SYNC
VIDEO AGC IN
VIDEO OUT(1Vp-p)
V-LOCK
AV V.IN
AUX V.IN
MESECAM DET
C ROTARY SW
H'D SW
IC301
SS11511M
〈SS11501M〉
REC C OUT
PB FM IN
REC Y FM OUT
REC 'H'
TRICK 'H'
F/TIMER
ASS'Y
IC302
LA70020
CN301
SP CH1
SP COMMON
SP CH2
LP CH2
LP COMMON
LP CH1
GND
HI-FI CH1
HI-FI COMMON
HI-FI CH2
GND
GND
FLYING ERASE
REC V
REC FM
PB FM
ENVE DET
C-SYNC
H'D SW V
H'D AMP SW
ENVE COMP
TRICK H
IC601
SYSCON. SERVO
ENVE DET
H'D SW
V-LOCK
C ROTARY SW
H'D AMP SW
ENVE COMP
IC601
OSD. TIMER
V-SYNC
MESECAM DET
IIC DATA
IIC CLOCK
OSD V.OUT
OSD V.IN
C-SYNC
to SCART
SELECT V.OUT
V.OUT
OSD V.OUT
AV V.IN
from SCART
TUNER V.IN
from TM
IC801 KA8119B

8-4 Hi-Fi Audio



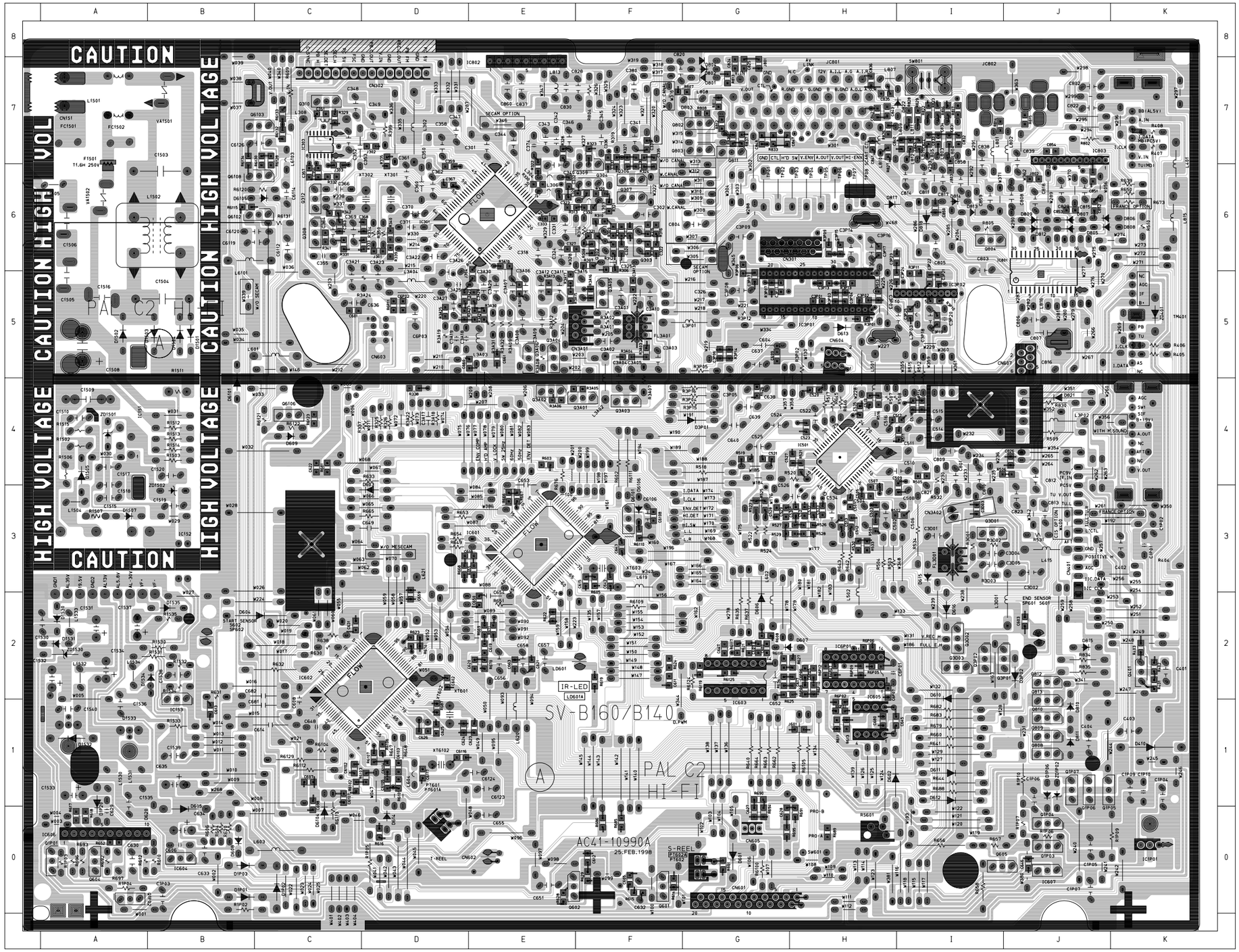
8-5 Function-Timer



9. PCB Diagrams

		Page
9-1	Main - - -

9-1 Main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HIGH VOLTAGE
CAUTION
HIGH VOLTAGE
CAUTION
HIGH VOLTAGE
CAUTION
HIGH VOLTAGE
SV-B160/B140
AC41-10990A
25.FEB.1998
PAL C2
HI-FI
FLOW
IR-LED
LD601A
S-REEL
PT602A
PT602
W/O SECAM
SECAM OPTION
FRANCE OPTION
WITH M.SOUND
START SENSOR
SP602
END SENSOR
SP601
PAL C2
HI-FI

*** RESISTOR ***

R1P02 (B0)
R1P03 (A0)
R1P04 (A0)
R1P05 (D0)
R1P06 (J0)
R1P07 (J0)
R1P09 (K0)
R1P10 (J1)
R1S02 (A4)
R1S03 (B4)
R1S06 (A4)
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R1S11 (B4)
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R406 (K5)
R407 (K7)
R408 (K7)
R503 (H3)
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R835 (J2)
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XT302 (D6)
XT601 (D1)
XT603 (F3)
XT6102 (D1)

*** CONDENSER ***

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VA1S02 (A6)
XT602 (D1)

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Q6106 (C4)
Q6108 (B6)
Q802 (G7)
Q803 (G7)
Q804 (I6)
Q808 (J1)
Q809 (J1)
Q810 (J1)
Q811 (G7)
Q812 (J2)
Q813 (J1)

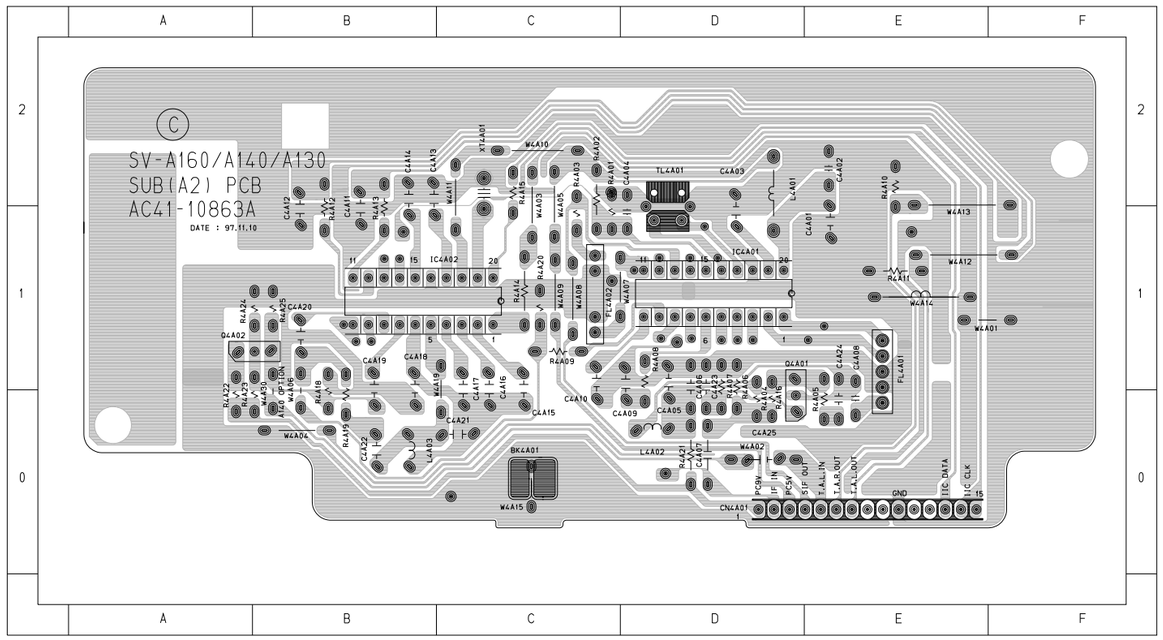
*** IC&WAFER ***

CN1S1 (A7)
CN302 (C7)
CN3A01 (E5)
CN401 (J4)
CN601 (G0)
CN602 (E0)
CN604 (H5)
CN605 (G0)
CN607 (J5)
IC1P01 (K0)
IC3P01 (H5)
IC3P02 (I5)
IC603 (G2)
IC605 (H1)
IC6P01 (H2)
IC802 (E7)
IC803 (J7)
JC801 (G7)
JC802 (I7)
S601 (J2)
S602 (B2)

*** CHIP ***

C320 (F6)
C321 (F6)
C322 (F6)
C323 (E6)
C327 (E6)
C328 (F6)
C330 (F6)
C332 (E6)
C333 (E6)
C335 (F7)
C336 (F7)
C337 (F7)
C338 (F7)
C339 (F7)
C351 (C7)
C356 (C6)
C357 (C6)
C359 (D6)
C363 (C6)
C367 (D6)
C368 (D6)
C3A13 (F5)
C3A28 (E5)
C3D03 (I3)
C3P01 (H5)
C3P02 (H5)
C3P04 (H5)
C3P06 (G5)
C3P07 (G5)
C3P11 (G5)
C3P13 (H5)
C3P15 (H6)
C3P17 (H6)
C3P19 (I5)
C3P21 (I5)
C3P22 (I5)
C3P23 (I6)
C3P24 (I5)
C3P25 (I5)
C501 (H3)
C503 (H3)
C505 (H3)
C507 (H3)
C509 (I3)
C512 (H3)
C513 (H3)
C517 (I4)
C518 (I4)
C519 (H4)
C520 (H4)
C521 (G4)
C523 (H4)
C527 (H4)
C528 (G3)
C529 (G3)
C530 (H3)
C531 (H3)
C532 (H3)
C533 (H3)
C535 (H4)
C601 (C5)
C602 (D2)
C603 (J2)
C605 (F0)
C607 (C1)
C609 (G2)
C610 (G2)
C6102 (C1)
C6103 (D1)
C6104 (D1)
C6105 (D1)
C6107 (C1)
C6108 (F3)
C611 (F2)
C6116 (D1)
C6117 (D1)
C612 (F0)
C613 (B1)
C615 (F3)
C617 (H2)
C618 (E3)
C619 (E2)
C620 (E2)
C621 (E2)
C622 (C4)
C623 (E1)
C624 (D1)
C625 (D1)
C626 (D1)
C627 (G0)
C628 (G0)
C631 (C2)
C642 (F3)
C643 (F3)
C645 (H1)
C646 (J0)
C647 (G2)
C650 (E2)
C659 (D2)
C660 (E5)
C661 (E5)
C663 (E2)
C680 (H1)
C698 (C1)
C699 (G5)
C6P02 (D5)
C6P05 (H2)
C6P06 (H2)
C6P07 (H2)
C824 (G7)
C825 (G7)
C826 (J4)
C831 (I7)
C832 (I7)
C833 (I7)
C834 (I7)
C835 (H7)
C836 (H7)
C840 (I7)
C841 (H7)
C842 (H7)
C843 (H7)
C844 (I7)
C845 (I7)
C847 (G7)
C848 (G7)
C850 (I6)
C851 (J6)
C852 (J6)
C853 (J6)
C854 (J7)
IC301 (E6)
IC303 (C7)
IC501 (H4)
IC602 (D2)
IC801 (J5)
J301 (D6)
J302 (D7)
J303 (C6)
J304 (E5)
J601 (H1)
J801 (G7)
J802 (J6)
J803 (I6)
R306 (F6)
R307 (F6)
R308 (F6)
R309 (F6)
R310 (F6)
R311 (F6)
R312 (F6)
R313 (E6)
R315 (F6)
R316 (F6)
R317 (F6)
R318 (F6)
R320 (F6)
R321 (F6)
R322 (E6)
R323 (F7)
R324 (F7)
R327 (F7)
R328 (E7)
R329 (C7)
R330 (E6)
R331 (C6)
R332 (C6)
R333 (D6)
R335 (D7)
R338 (D4)
R339 (D6)
R340 (D6)
R341 (C6)
R342 (C6)
R3A03 (F5)
R3A04 (F5)
R3A05 (F4)
R3A06 (E4)
R3A10 (E6)
R3A11 (E5)
R3A13 (E5)
R3A15 (E5)
R3A16 (F5)
R3A17 (E5)
R3A25 (D5)
R3A27 (D5)
R3A28 (E5)
R3A29 (D5)
R3A30 (E5)
R3P01 (H5)
R3P03 (H5)
R3P06 (G6)
R3P07 (G5)
R3P09 (H6)
R3P10 (I5)
R3P11 (I5)
R3P13 (H5)
R3P14 (G5)
R401 (K2)
R402 (K2)
R403 (K2)
R501 (H3)
R502 (I3)
R505 (I4)
R506 (J4)
R511 (I4)
R513 (H5)
R514 (I4)
R516 (H4)
R519 (G4)
R521 (H4)
R523 (G3)
R525 (G3)
R526 (H3)
R527 (H3)
R528 (H3)
R529 (H3)
R530 (H3)
R533 (H3)
R601 (G0)
R603 (E4)
R605 (F3)
R608 (G2)
R6101 (D1)
R6102 (C1)
R6103 (D1)
R6106 (D1)
R6107 (D1)
R611 (H1)
R6110 (F3)
R6115 (B6)
R6116 (G2)
R6117 (G2)
R6119 (G2)
R6123 (C4)
R6125 (G2)
R6128 (C7)
R613 (H1)
R6130 (C7)
R6132 (C7)
R6133 (C7)
R6134 (B7)
R614 (F0)
R615 (F0)
R616 (D0)
R617 (A0)
R618 (A0)
R619 (F2)
R621 (G2)
R622 (E2)
R623 (D2)
R624 (F2)
R625 (G2)
R626 (G4)
R627 (H2)
R628 (E0)
R629 (F0)
R634 (G2)
R652 (A0)
R655 (E3)
R666 (E3)
R667 (E3)
R668 (D3)
R669 (E2)
R670 (E2)
R671 (E2)
R674 (D2)
R681 (C4)
R685 (F0)
R686 (F0)
R687 (D1)
R689 (H0)
R690 (G1)
R691 (H0)
R694 (G0)
R695 (G0)
R6P01 (H1)
R6P02 (H1)
R6P05 (H2)
R6P06 (H2)
R6P07 (H2)
R6P08 (H2)
R6P09 (H2)
R6P10 (H2)
R6P11 (D5)
R6P12 (H2)
R807 (G7)
R808 (G7)
R811 (G7)
R812 (G7)
R813 (G7)
R814 (I7)
R815 (J7)
R816 (I7)
R817 (I7)
R822 (I7)
R823 (I7)
R826 (H7)
R827 (H7)
R828 (I7)
R829 (I7)
R833 (G7)
R836 (G7)
R837 (G7)

9-2 SUB (A2)



*** RESISTOR ***

R4A01 (C1)
R4A02 (C1)
R4A03 (C1)
R4A04 (D0)
R4A05 (E0)
R4A06 (D0)
R4A07 (D0)
R4A08 (D0)
R4A09 (C1)
R4A10 (E1)
R4A11 (E1)
R4A12 (B1)
R4A13 (B1)
R4A14 (C1)
R4A15 (C1)
R4A16 (D0)
R4A18 (B0)
R4A19 (B0)
R4A20 (C1)
R4A21 (D0)
R4A22 (A1)
R4A23 (B1)
R4A24 (B1)
R4A25 (B1)
XT4A01 (C1)

*** CONDENSER ***

C4A01 (E1)
C4A02 (E2)
C4A03 (D1)
C4A04 (D1)
C4A05 (D0)
C4A06 (D0)
C4A07 (D0)
C4A08 (E0)
C4A09 (D0)
C4A10 (C1)
C4A11 (B2)
C4A12 (B2)
C4A13 (B2)
C4A14 (B2)
C4A15 (C1)
C4A16 (C1)
C4A17 (C1)
C4A18 (B1)
C4A19 (B1)
C4A20 (B1)
C4A21 (C0)
C4A22 (B0)
C4A23 (D0)
C4A24 (E0)
C4A25 (D0)

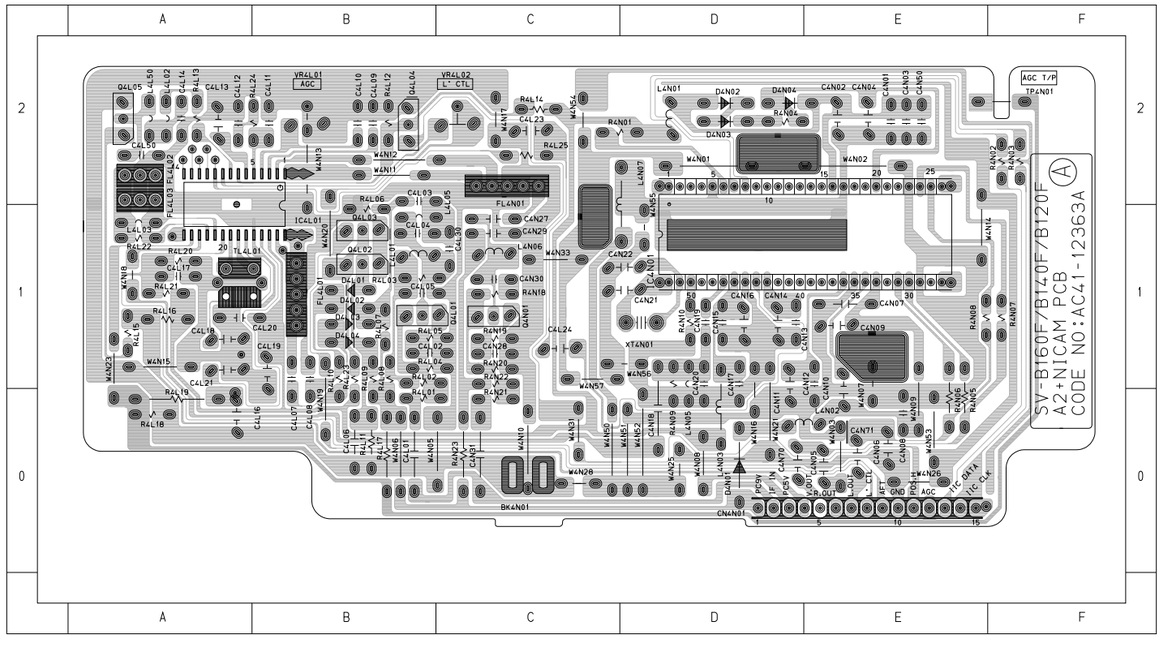
*** TR ***

Q4A01 (D1)
Q4A02 (B1)

*** IC&WAFER ***

CN4A01 (D0)
IC4A01 (D1)
IC4A02 (C1)

9-3 SUB (A2/NICAM) ; SV-717F/617F Only



*** RESISTOR ***

R4L01 (B0)
R4L02 (B1)
R4L03 (B1)
R4L04 (B1)
R4L05 (B1)
R4L06 (B1)
R4L07 (B1)
R4L08 (B0)
R4L09 (B0)
R4L10 (B0)
R4L11 (B0)
R4L12 (B2)
R4L13 (A2)
R4L14 (C2)
R4L15 (A1)
R4L16 (A1)
R4L17 (B0)
R4L18 (A0)
R4L19 (A0)
R4L20 (A1)
R4L21 (A1)
R4L22 (A1)
R4L23 (B0)
R4L24 (B2)
R4L25 (C2)
R4N01 (C2)
R4N02 (F2)
R4N03 (F2)
R4N04 (D2)
R4N05 (E0)
R4N06 (E0)
R4N07 (F1)
R4N08 (E1)
R4N09 (D0)
R4N10 (D1)
R4N18 (C1)
R4N19 (C1)
R4N20 (C1)
R4N21 (C0)
R4N22 (C1)
R4N23 (C0)
XT4N01 (D1)

*** CONDENSER ***

C4L01 (B0)
C4L02 (B1)
C4L03 (B2)
C4L04 (B1)
C4L05 (B1)
C4L06 (B0)
C4L07 (B0)
C4L08 (B0)
C4L09 (B2)
C4L10 (B2)
C4L11 (B2)
C4L12 (A2)
C4L13 (A2)
C4L14 (A2)
C4L16 (A0)
C4L17 (A1)
C4L18 (A1)
C4L19 (B1)
C4L20 (A1)
C4L21 (A1)
C4L23 (C2)
C4L24 (C1)
C4L30 (C1)
C4L50 (A2)
C4N01 (E2)
C4N02 (E2)
C4N03 (E2)
C4N04 (E2)
C4N05 (E0)
C4N06 (E0)
C4N07 (E1)
C4N08 (E0)
C4N09 (E1)
C4N10 (E0)
C4N11 (D1)
C4N12 (E0)
C4N13 (D1)
C4N14 (D1)
C4N15 (D1)
C4N16 (D1)
C4N17 (D0)
C4N18 (D0)
C4N19 (D1)
C4N20 (D0)
C4N21 (C1)
C4N22 (C1)
C4N27 (C1)
C4N28 (C1)
C4N29 (C1)
C4N30 (C1)
C4N31 (C0)
C4N50 (E2)
C4N70 (D0)
C4N71 (E0)

*** DIODE ***

D4L01 (B1)
D4L02 (B1)
D4L03 (B1)
D4L04 (B1)
D4N01 (D0)
D4N02 (D2)
D4N03 (D2)
D4N04 (E2)

*** IC&WAFER ***

CN4N01 (D0)

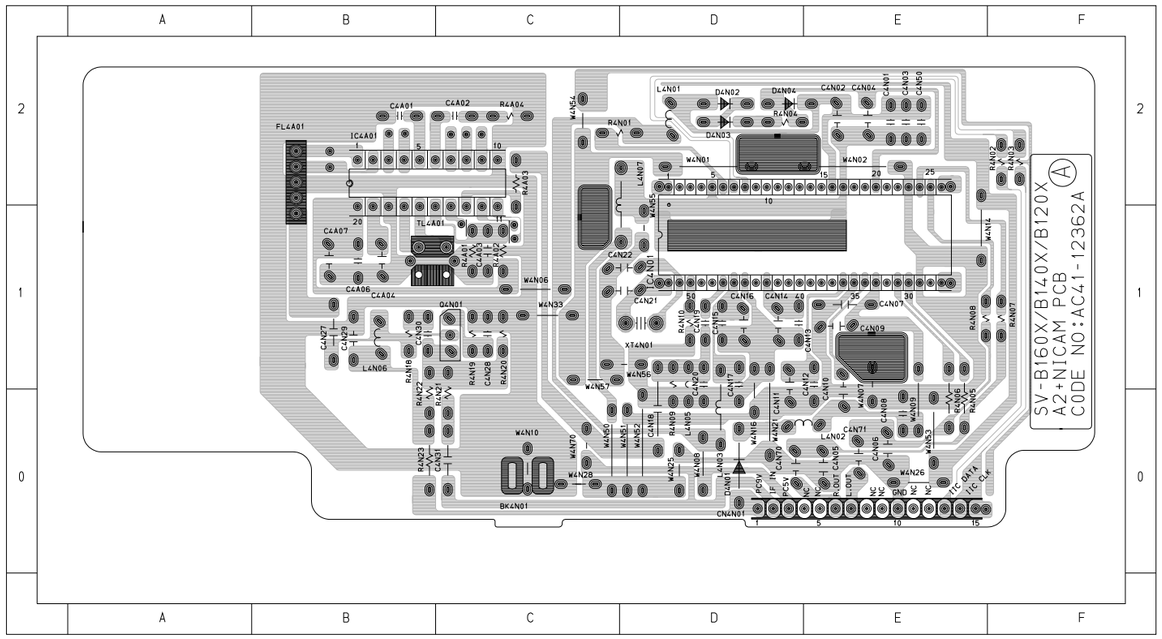
*** TR ***

Q4L01 (B1)
Q4L02 (B1)
Q4L03 (B1)
Q4L04 (B2)
Q4L05 (A2)
Q4N01 (C1)

*** CHIP ***

IC4L01 (A2)

9-4 SUB (A2/NICAM)



*** RESISTOR ***

R4A01 (C1)
R4A02 (C1)
R4A03 (C1)
R4A04 (C2)
R4N01 (C2)
R4N02 (F2)
R4N03 (F2)
R4N04 (D2)
R4N05 (E0)
R4N06 (E0)
R4N07 (F1)
R4N08 (E1)
R4N09 (D0)
R4N10 (D1)
R4N18 (B1)
R4N19 (C1)
R4N20 (C1)
R4N21 (C0)
R4N22 (B0)
R4N23 (B0)
XT4N01 (D1)

*** CONDENSER ***

C4A01 (B2)
C4A02 (C2)
C4A03 (C1)
C4A04 (B1)
C4A06 (B1)
C4A07 (B1)
C4N01 (E2)
C4N02 (E2)
C4N03 (E2)
C4N04 (E2)
C4N05 (E0)
C4N06 (E0)
C4N07 (E1)
C4N08 (E0)
C4N09 (E1)
C4N10 (E0)
C4N11 (D1)
C4N12 (E0)
C4N13 (D1)
C4N14 (D1)
C4N15 (D1)
C4N16 (D1)
C4N17 (D0)
C4N18 (D0)
C4N19 (D1)
C4N20 (D0)
C4N21 (C1)
C4N22 (C1)
C4N27 (B1)
C4N28 (C1)
C4N29 (B1)
C4N30 (B1)
C4N31 (C0)
C4N50 (E2)
C4N70 (D0)
C4N71 (E0)

*** DIODE ***

D4N01 (D0)
D4N02 (D2)
D4N03 (D2)
D4N04 (E2)

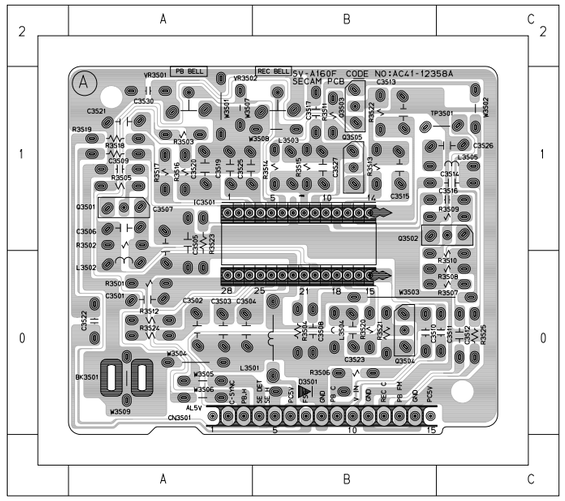
*** TR ***

Q4N01 (C1)

*** IC&WAFER ***

CN4N01 (D0)
IC4A01 (B1)

9-5 SUB (SECAM) ; SV-717F/617F Only



*** RESISTOR ***

R3S01 (A0)
R3S02 (A1)
R3S03 (A1)
R3S04 (B0)
R3S05 (A1)
R3S06 (B0)
R3S07 (B0)
R3S08 (B0)
R3S09 (B1)
R3S10 (B0)
R3S11 (B1)
R3S12 (A0)
R3S13 (B1)
R3S14 (B1)
R3S15 (B1)
R3S16 (A1)
R3S17 (A1)
R3S18 (A1)
R3S19 (A1)
R3S20 (B0)
R3S21 (B0)
R3S22 (B1)
R3S23 (A0)
R3S24 (A0)
R3S25 (C0)

*** CONDENSER ***

C3S01 (A0)
C3S02 (A0)
C3S03 (A0)
C3S04 (A0)
C3S05 (A0)
C3S06 (A1)
C3S07 (A0)
C3S08 (B0)
C3S09 (A1)
C3S10 (B0)
C3S11 (C0)
C3S12 (C0)
C3S13 (B1)
C3S14 (B1)
C3S15 (B1)
C3S16 (B1)
C3S17 (B1)
C3S19 (A1)
C3S20 (A1)
C3S21 (A1)
C3S22 (A0)
C3S23 (B0)
C3S25 (A1)
C3S26 (B1)
C3S27 (B1)
C3S30 (A1)

*** DIODE ***

D3S01 (B0)

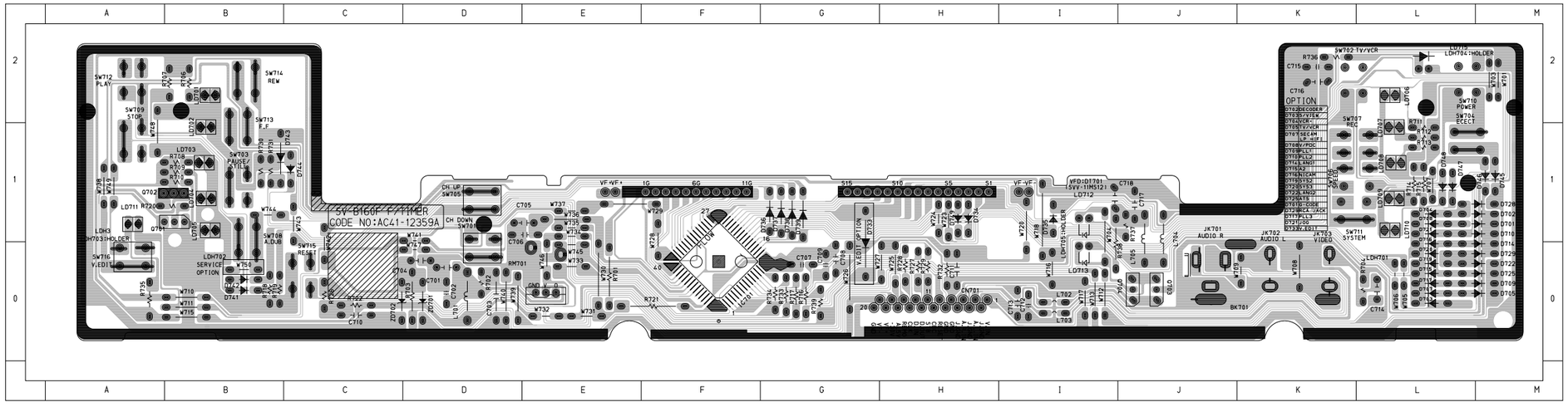
*** TR ***

Q3S01 (A1)
Q3S02 (B1)
Q3S03 (B1)
Q3S04 (B0)
Q3S05 (B1)

*** IC&WAFER ***

CN3S01 (A0)
IC3S01 (A0)

9-6 Function-Timer (SV-717X/715X/700XK/717F/717B/B160B/SVR-715)



xxx RESISTOR xxx

R701 (E0)
R702 (D0)
R703 (D0)
R704 (L0)
R706 (B2)
R707 (B2)
R708 (A1)
R709 (A1)
R710 (A1)
R711 (L1)
R712 (L1)
R713 (L1)
R714 (L1)
R715 (L1)
R716 (G0)
R717 (G0)
R718 (B0)
R719 (B0)
R720 (A1)
R721 (E0)
R722 (C0)
R726 (C0)
R727 (H0)
R728 (H0)
R729 (H0)
R730 (B1)
R731 (B1)
R732 (H0)
R733 (G0)
R734 (G0)
R735 (A0)
R736 (K2)
R737 (J1)
R738 (I0)
R739 (G0)

xxx CONDENSER xxx xxx DIODE xxx

C701 (D0)
C702 (D0)
C703 (D0)
C704 (D0)
C705 (E1)
C706 (D1)
C707 (G0)
C708 (G0)
C709 (G0)
C710 (C0)
C711 (H0)
C712 (I0)
C713 (I0)
C714 (L0)
C715 (K2)
C716 (K2)
C717 (J1)
C718 (I1)
D701 (M1)
D702 (M1)
D703 (L0)
D704 (L1)
D705 (M0)
D707 (L0)
D708 (L1)
D709 (M0)
D710 (M1)
D714 (M0)
D715 (L0)
D716 (L0)
D717 (L0)
D719 (L0)
D720 (L0)
D721 (L1)
D722 (M0)
D725 (M0)
D728 (M1)
D729 (M0)
D733 (G0)
D734 (H1)
D735 (I1)
D736 (G1)
D737 (G1)
D738 (G1)
D739 (G1)
D741 (B0)
D742 (B0)
D743 (B1)
D744 (C1)
D745 (M1)
D746 (M1)
D747 (L1)
D748 (L1)
D749 (H1)
ZD701 (D0)
ZD702 (C0)

xxx TR xxx

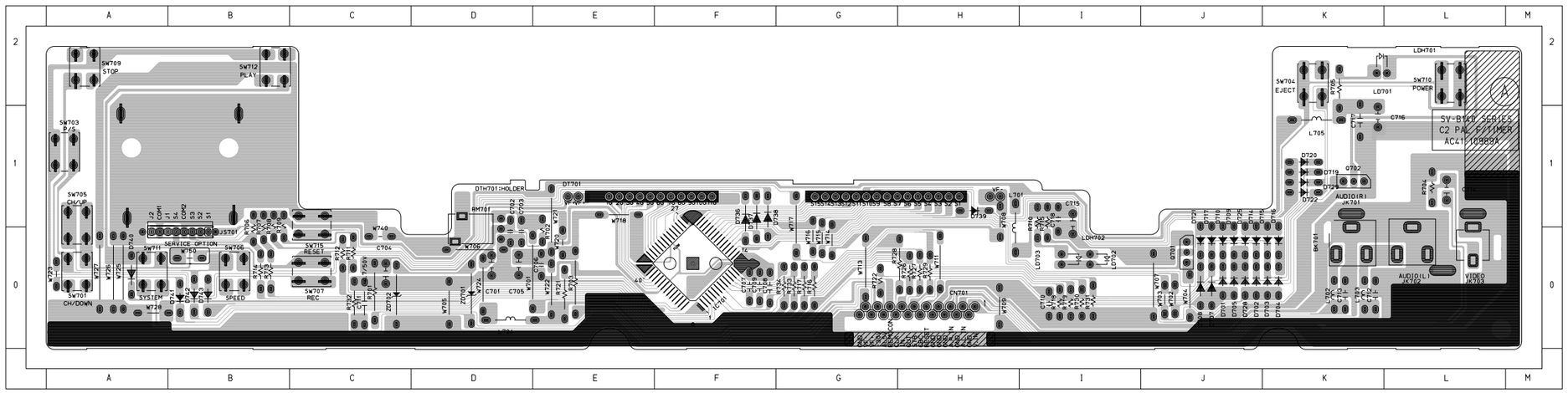
Q701 (B1)
Q702 (A1)
Q703 (J0)
Q704 (J0)

xxx IC&WAFER xxx

CN701 (G0)
IC701 (F0)

xxx CHIP xxx

9-7 Function-Timer (SV-617X/615X/617F/617B/615B/615G/B140G/SVR-615)



xxx RESISTOR xxx

R701 (C0)
R702 (E0)
R703 (E0)
R704 (L1)
R705 (K1)
R706 (B0)
R707 (B0)
R708 (B0)
R709 (B0)
R710 (I0)
R711 (C0)
R712 (C0)
R713 (B0)
R714 (B0)
R715 (I0)
R716 (G0)
R717 (G0)
R718 (I0)
R719 (I0)
R721 (E0)
R722 (G0)
R726 (H0)
R727 (H0)
R728 (H0)
R729 (H0)
R730 (I0)
R731 (I0)
R732 (C0)
R733 (G0)
R734 (G0)

xxx CONDENSER xxx

C701 (D0)
C702 (D0)
C703 (D0)
C704 (C0)
C705 (D0)
C706 (E0)
C707 (F0)
C708 (F0)
C709 (F0)
C710 (I0)
C711 (C0)
C712 (K0)
C713 (K0)
C714 (L1)
C715 (I1)
C716 (K1)
C717 (K1)
C718 (I0)

xxx DIODE xxx

D701 (J0)
D702 (J0)
D703 (K0)
D704 (K0)
D705 (J0)
D707 (J0)
D708 (J0)
D709 (J0)
D710 (J0)
D714 (J0)
D715 (K0)
D716 (K0)
D717 (J0)
D719 (K1)
D720 (K1)
D721 (J0)
D722 (K1)
D725 (J0)
D728 (J0)
D729 (K1)
D736 (F1)
D737 (F1)
D738 (F1)
D739 (H1)
D740 (A0)
D741 (B0)
D742 (B0)
D743 (B0)
ZD701 (D0)
ZD702 (C0)

xxx TR xxx

Q701 (J0)
Q702 (K1)

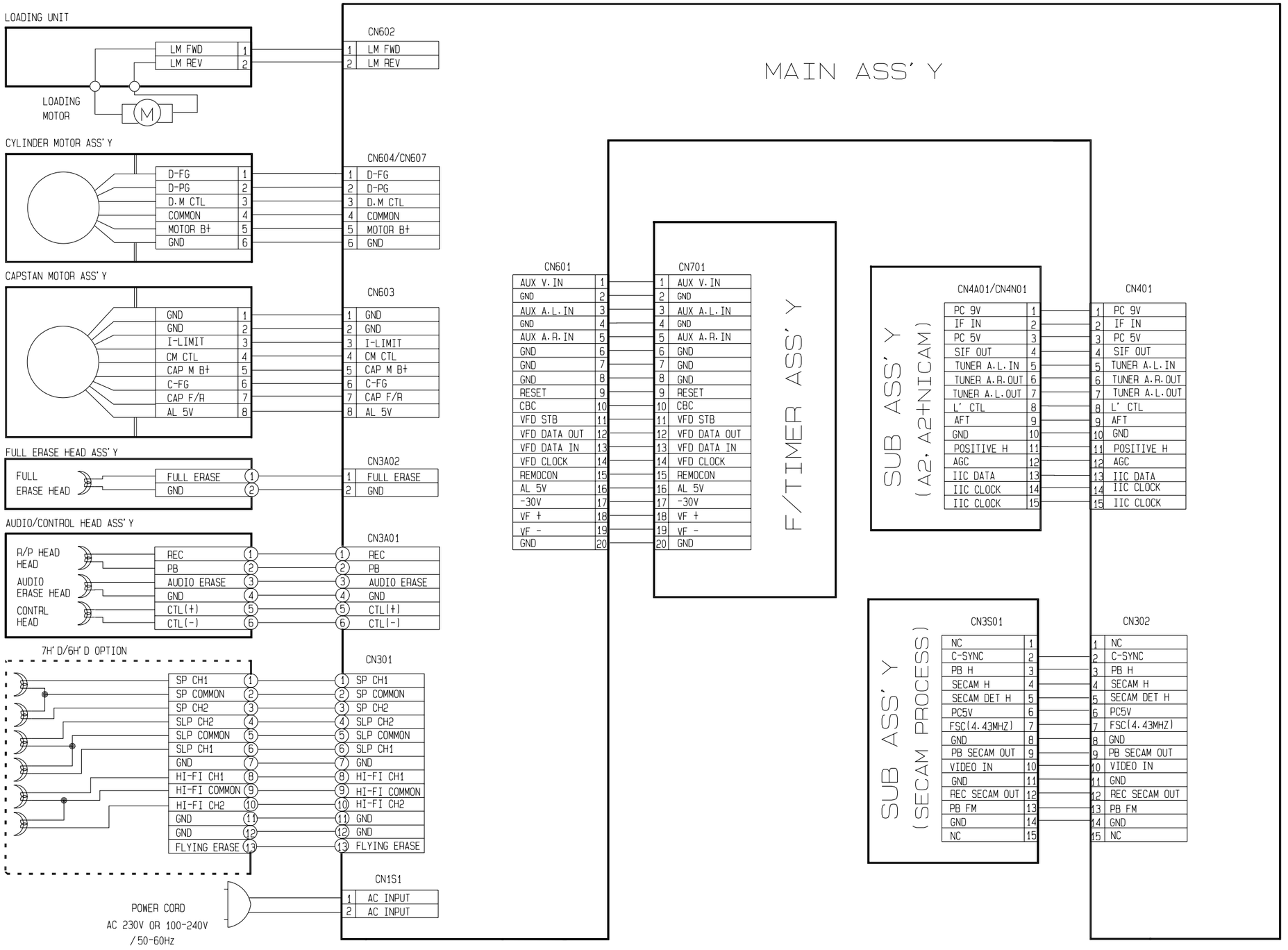
xxx IC&WAFER xxx

CN701 (G0)
JK701 (K0)
JK702 (L0)
JK703 (L0)

xxx CHIP xxx

IC701 (F0)

10. Wiring Diagram



11. Schematic Diagrams

Page

◆ Block Identification of Main PCB - 11-2

11-1 S.M.P.S/Power - 11-3

11-2 System Control/Servo - 11-4

11-3 Pre-Amp - 11-5

11-4 Audio/Video - 11-6

11-5 Hi-Fi - 11-7

11-6 SECAM (SV-717F/617F Only) - 11-8

11-7 IF (SV-717F/617F Only) - 11-9

11-8 IF - 11-10

11-9 VPS/PDC - 11-11

11-10 SUB (A2) - 11-12

11-11 SUB (A2/NICAM) ; SV-717F/617F Only - - - - - - - - - - - - - - - - - - 11-13

11-12 SUB (A2/NICAM) - 11-14

11-13 I/O (RCA) - 11-15

11-14 I/O (1 SCART) - 11-16

11-15 I/O (2 SCART) - 11-17

11-16 Function-Timer (SV-717X/715X/700XK/717F/717B/B160B/SVR-715) - - - 11-18

11-17 Function-Timer (SV-617X/615X/617F/617B/615B/615G/B140G/SVR-615) 11-19

11-18 Remote-Control (Shuttle) - 11-20

11-19 Remote-Control (Without Shuttle) - 11-21

Note

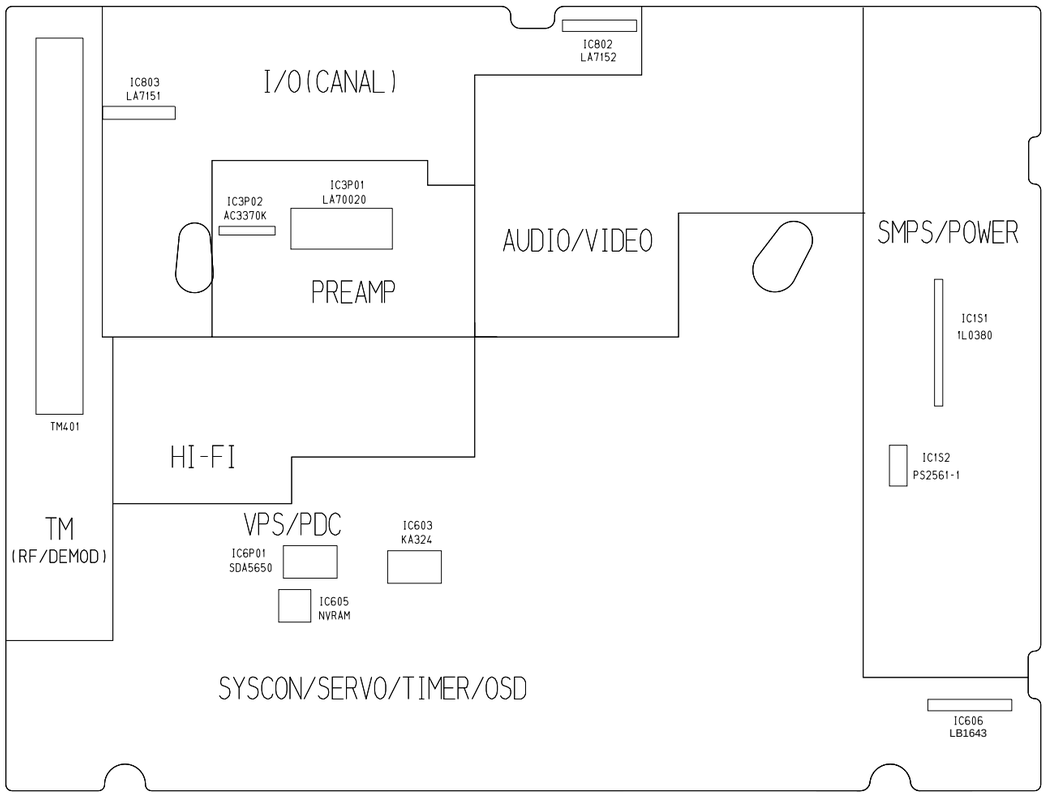
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

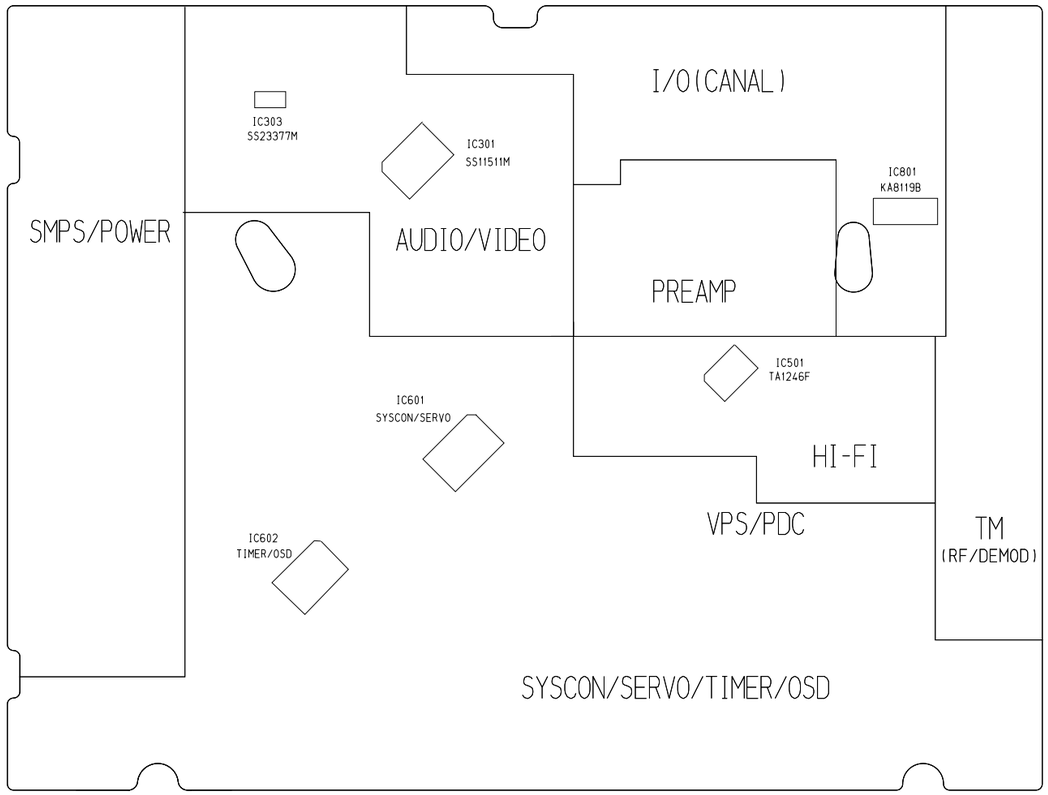
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ Block Identification of Main PCB

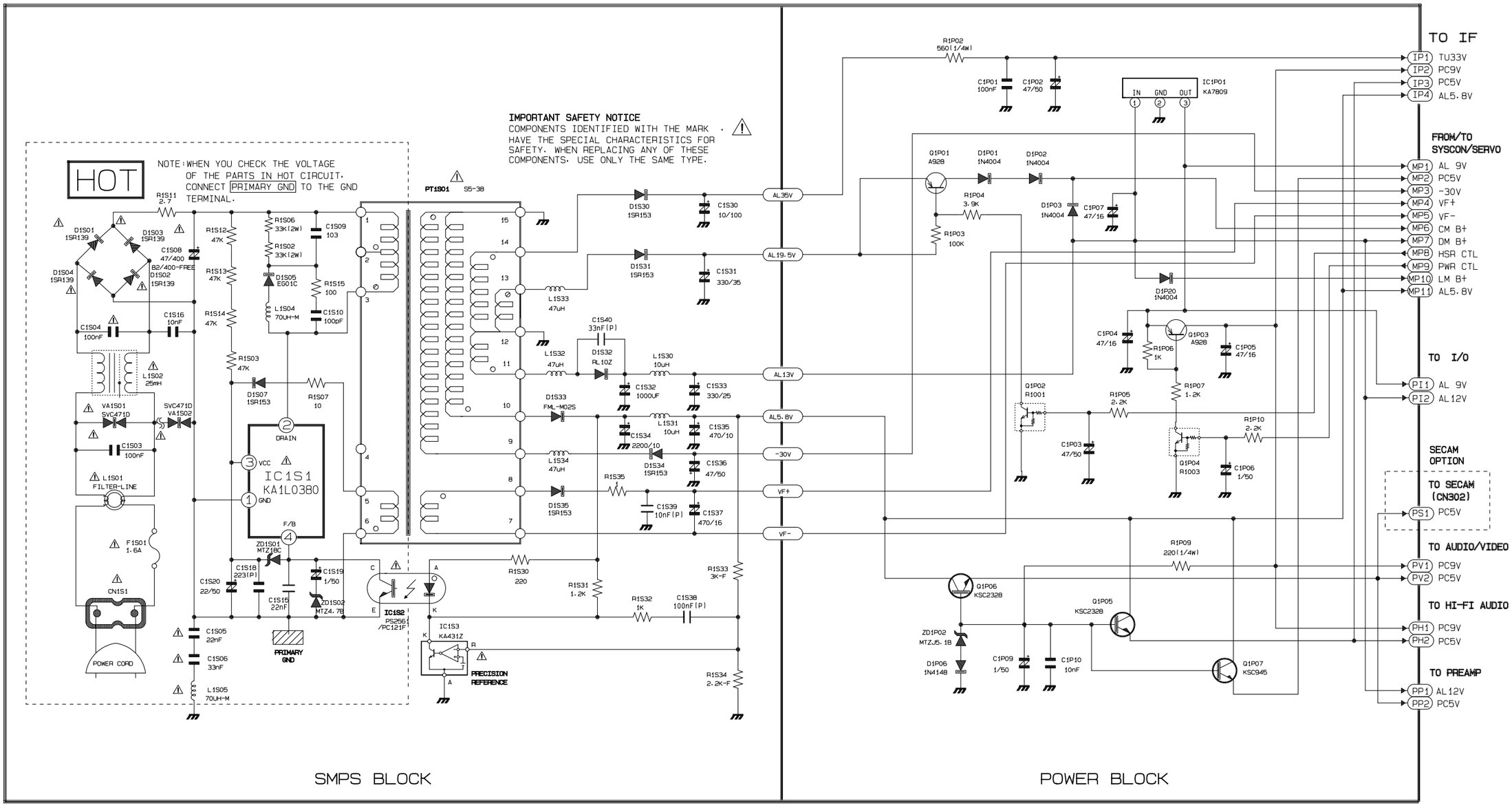


(Component Side)

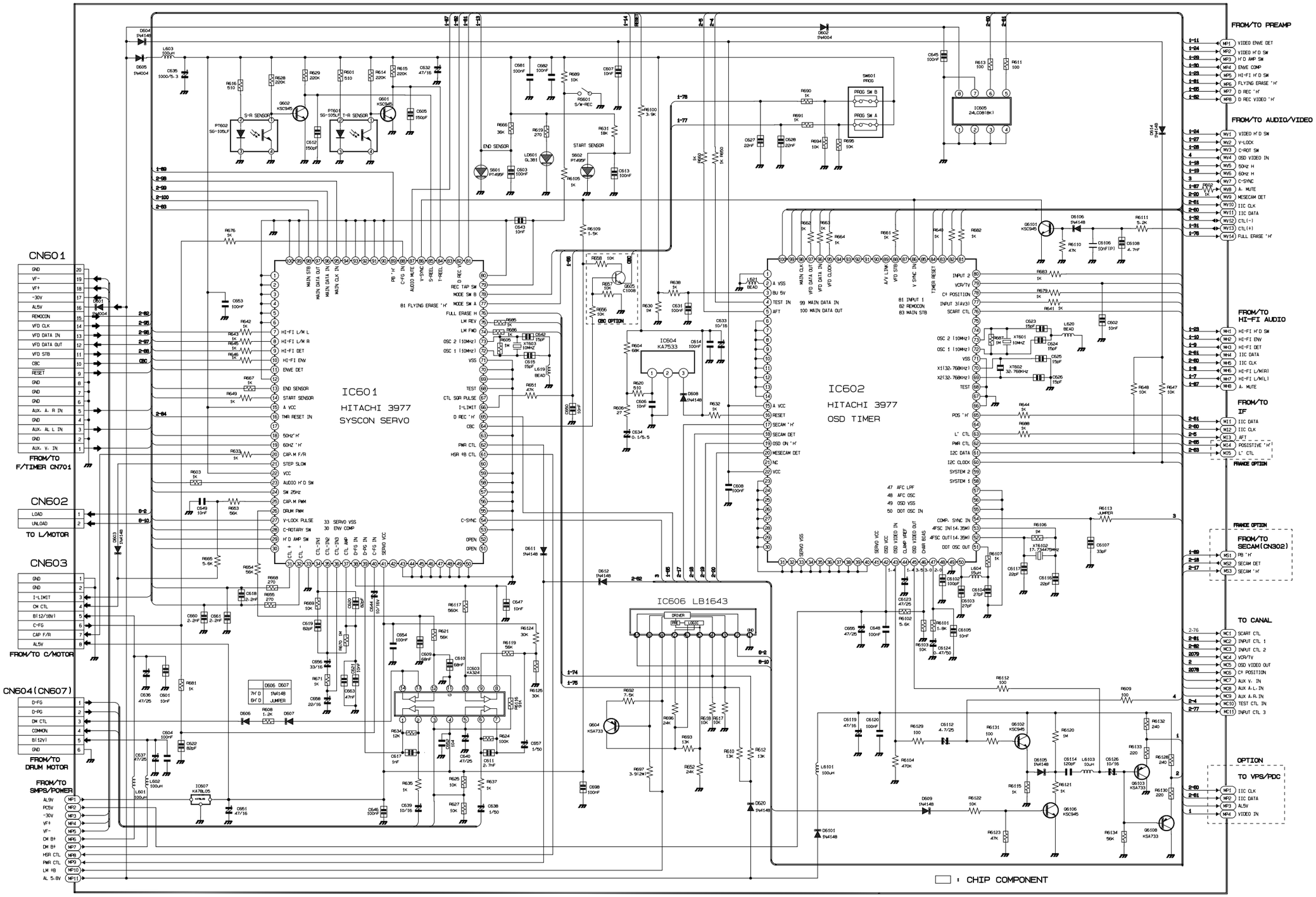


(Conductor Side)

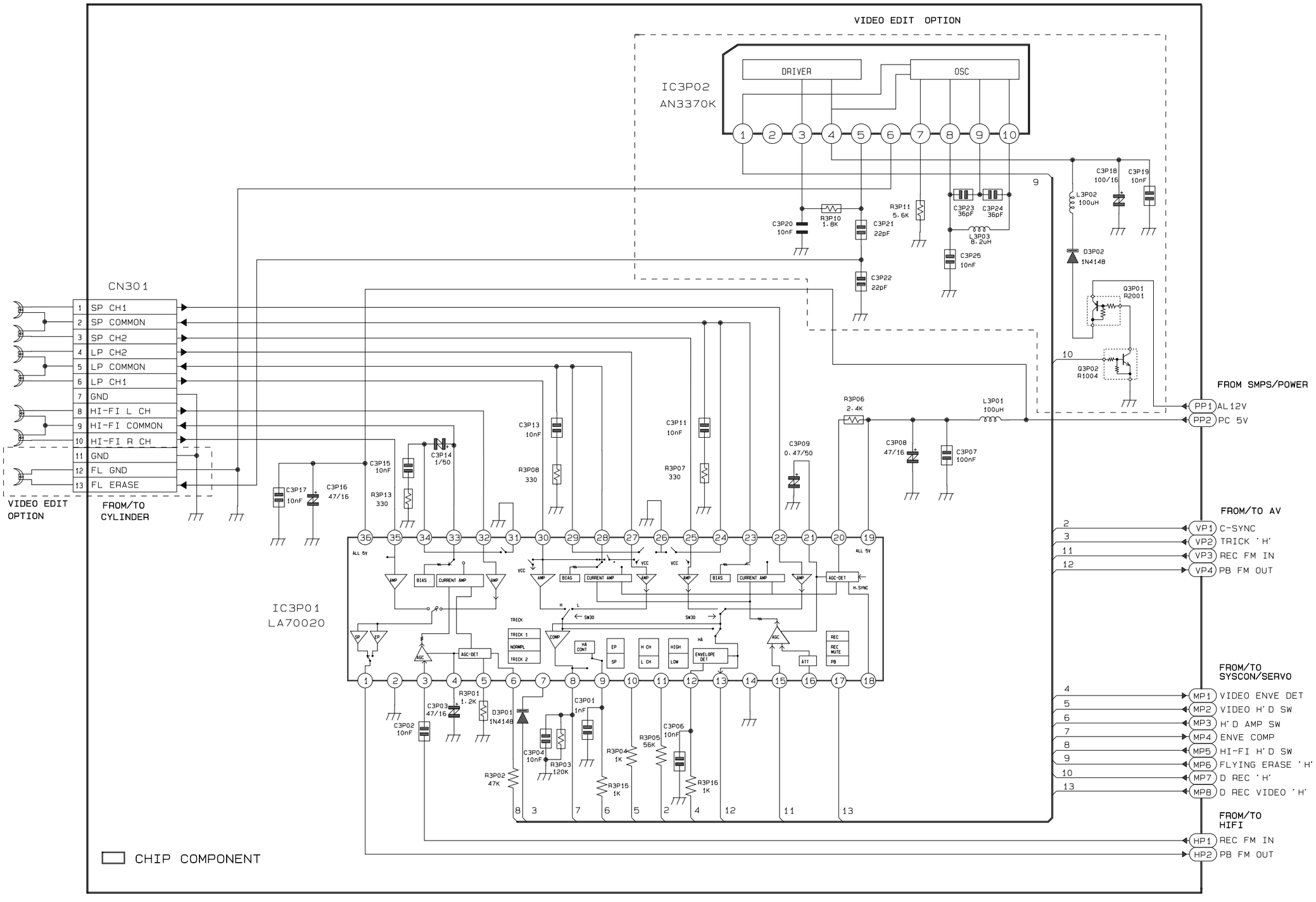
11-1 S.M.P.S/POWER



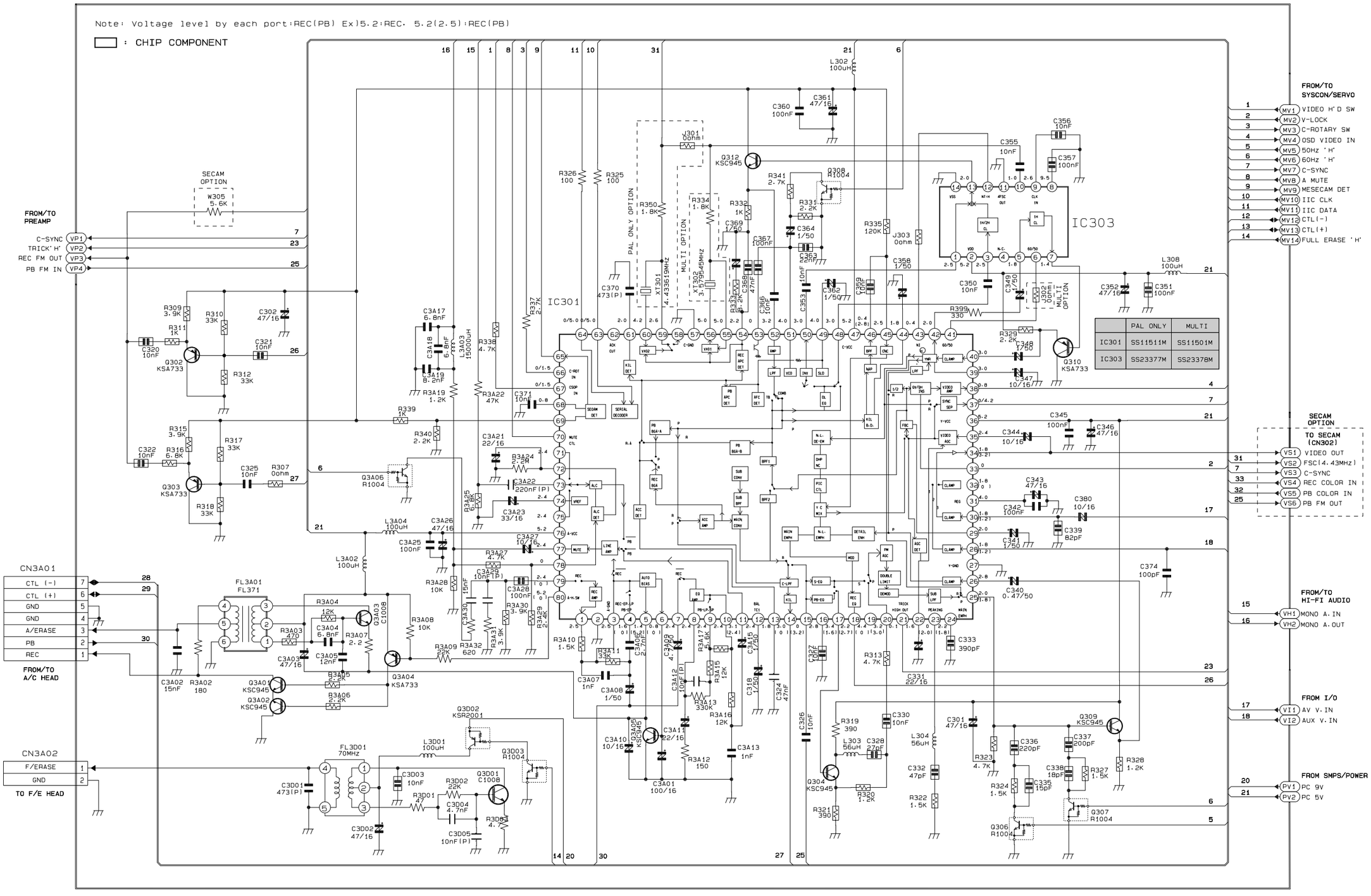
11-2 System Control/Servo



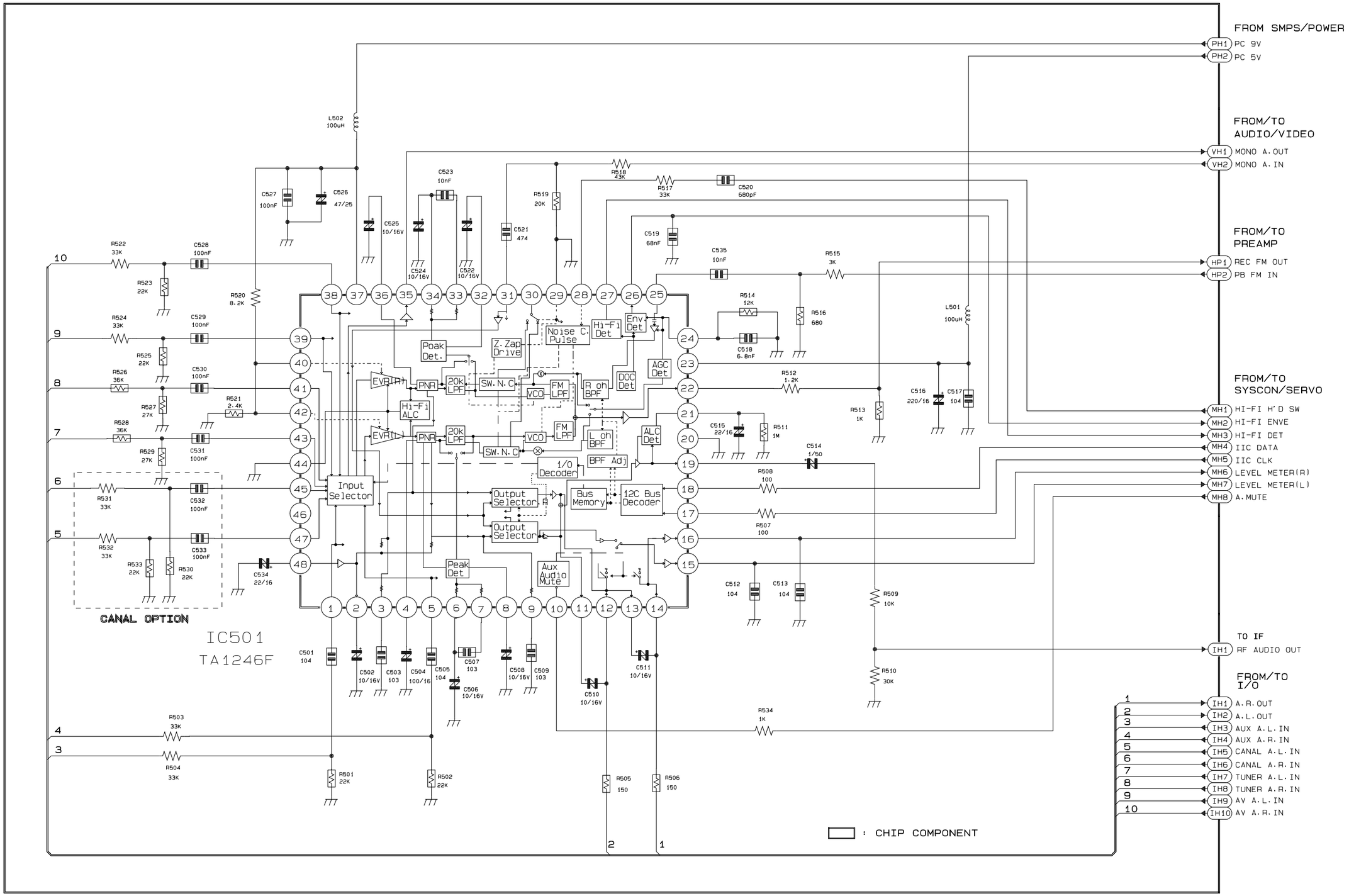
11-3 Pre-Amp


VIDEO EDIT OPTION
IC3P02
AN3370K
DRIVER
OSC
CN301
1 SP CH1
2 SP COMMON
3 SP CH2
4 LP CH2
5 LP COMMON
6 LP CH1
7 GND
8 HI-FI L CH
9 HI-FI COMMON
10 HI-FI R CH
11 GND
12 FL GND
13 FL ERASE
VIDEO EDIT OPTION
FROM/TO CYLINDER
IC3P01
LA70020
CHIP COMPONENT
FROM SMPS/POWER
PP1 AL 12V
PP2 PC 5V
FROM/TO AV
VP1 C-SYNC
VP2 TRICK 'H'
VP3 REC FM IN
VP4 PB FM OUT
FROM/TO SYSCON/SERVO
MP1 VIDEO ENVE DET
MP2 VIDEO H'D SW
MP3 H'D AMP SW
MP4 ENVE COMP
MP5 HI-FI H'D SW
MP6 FLYING ERASE 'H'
MP7 D REC 'H'
MP8 D REC VIDEO 'H'
FROM/TO HIFI
HP1 REC FM IN
HP2 PB FM OUT

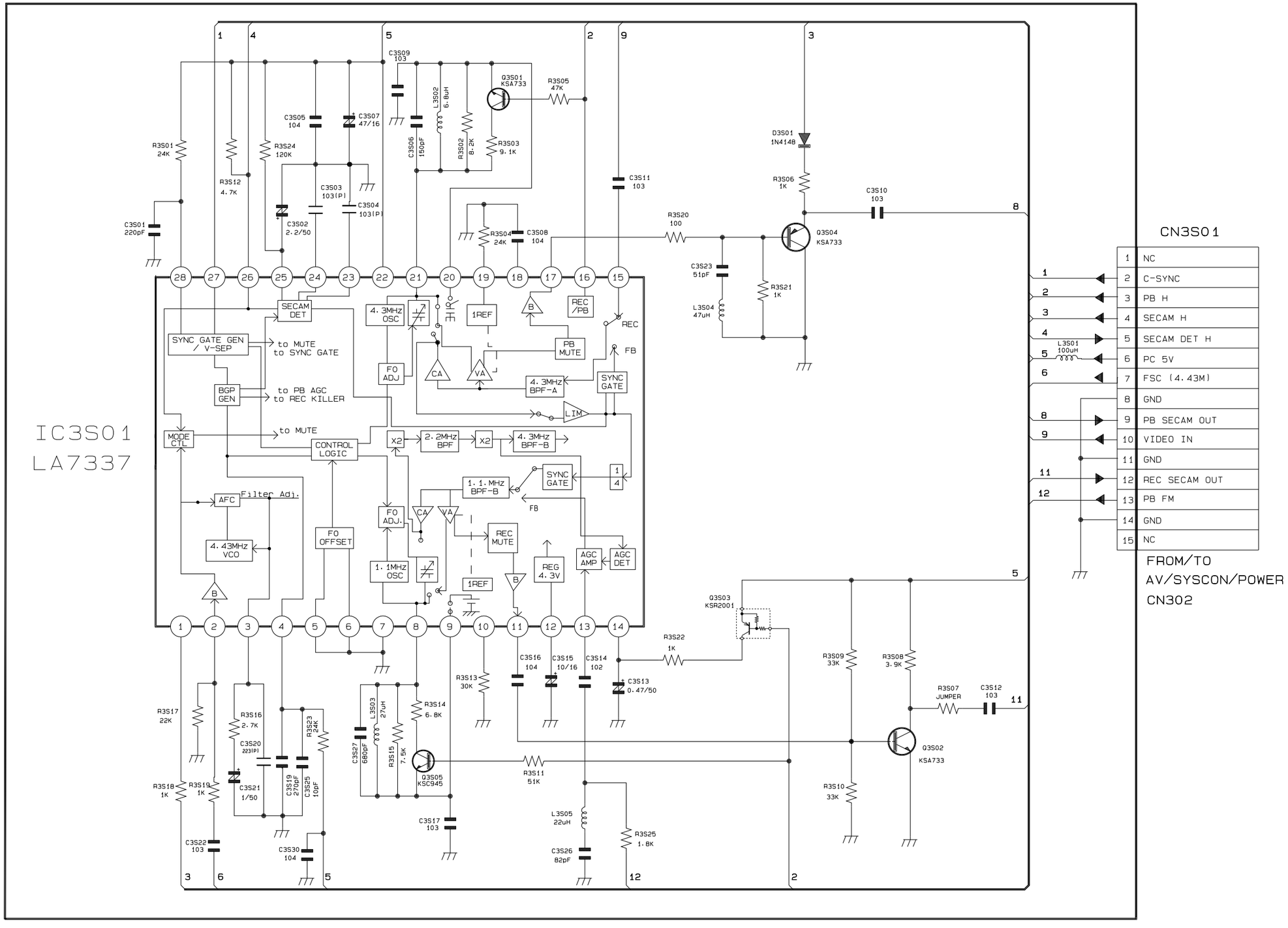
11-4 Audio/Video



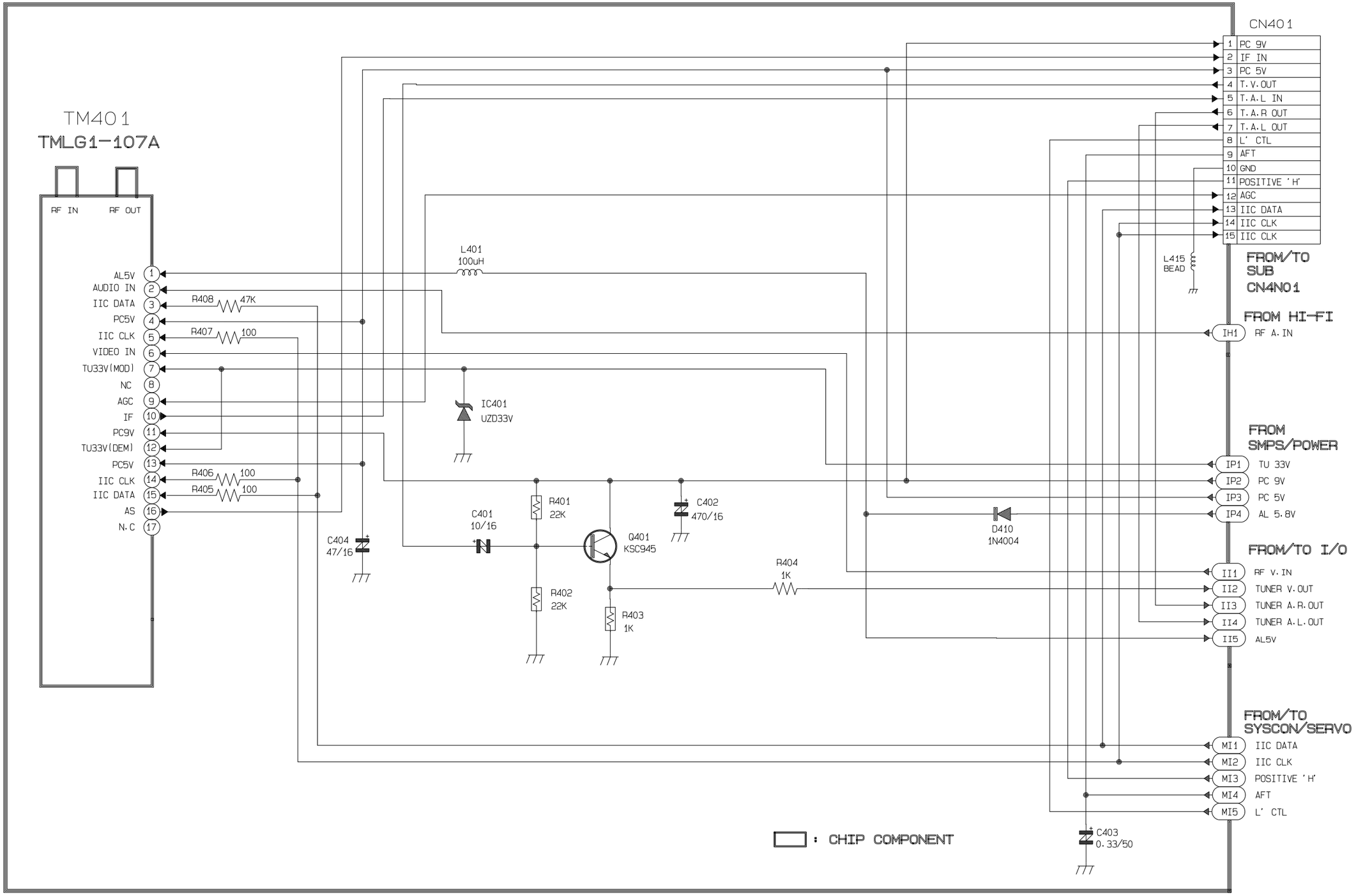
11-5 Hi-Fi


FROM SMPS/POWER
PH1 PC 9V
PH2 PC 5V
FROM/TO AUDIO/VIDEO
VH1 MONO A.OUT
VH2 MONO A.IN
FROM/TO PREAMP
HP1 REC FM OUT
HP2 PB FM IN
FROM/TO SYSCON/SERVO
MH1 HI-FI H'D SW
MH2 HI-FI ENVE
MH3 HI-FI DET
MH4 IIC DATA
MH5 IIC CLK
MH6 LEVEL METER(R)
MH7 LEVEL METER(L)
MH8 A.MUTE
TO IF
IH1 RF AUDIO OUT
FROM/TO I/O
IH1 A.R.OUT
IH2 A.L.OUT
IH3 AUX A.L.IN
IH4 AUX A.R.IN
IH5 CANAL A.L.IN
IH6 CANAL A.R.IN
IH7 TUNER A.L.IN
IH8 TUNER A.R.IN
IH9 AV A.L.IN
IH10 AV A.R.IN
IC501
TA1246F
CANAL OPTION
: CHIP COMPONENT
Noise C. Pulse
Hi-Fi Det
Env Det
Poak Det.
Z.Zap Drive
AGC Det
DOC Det
R on BPF
L on BPF
ALC Det
BPF Adj
Hi-Fi ALC
PNR
20k LPF
SW.N.C
VCO
FM LPF
EVR(H)
EVR(L)
1/O Decoder
Input Selector
Output Selector
Bus Memory
12C Bus Decoder
Peak Det
Aux Audio Mute

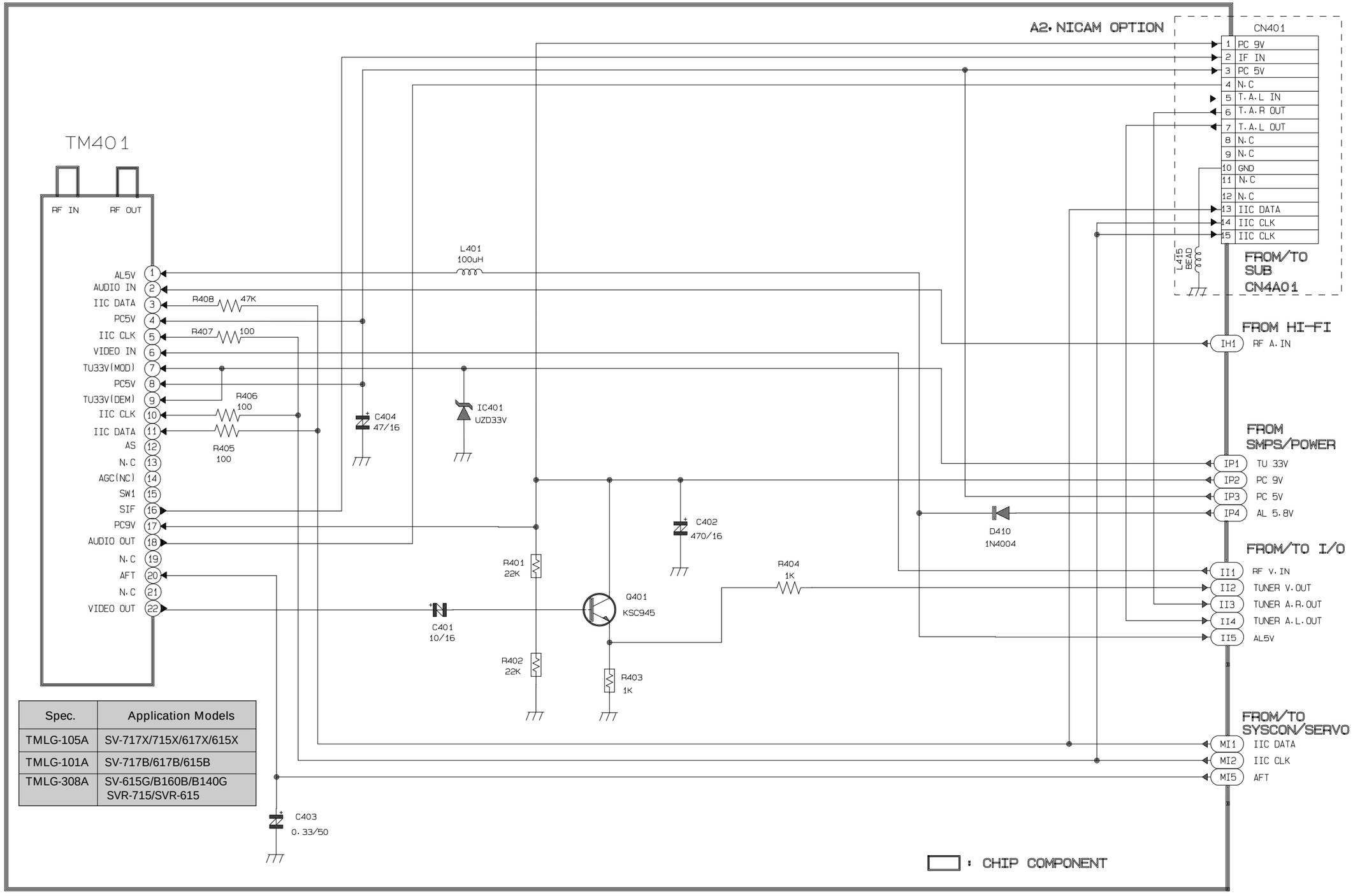
11-6 SECAM (SV-717F/617F Only)



11-7 IF (SV-717F/617F Only)

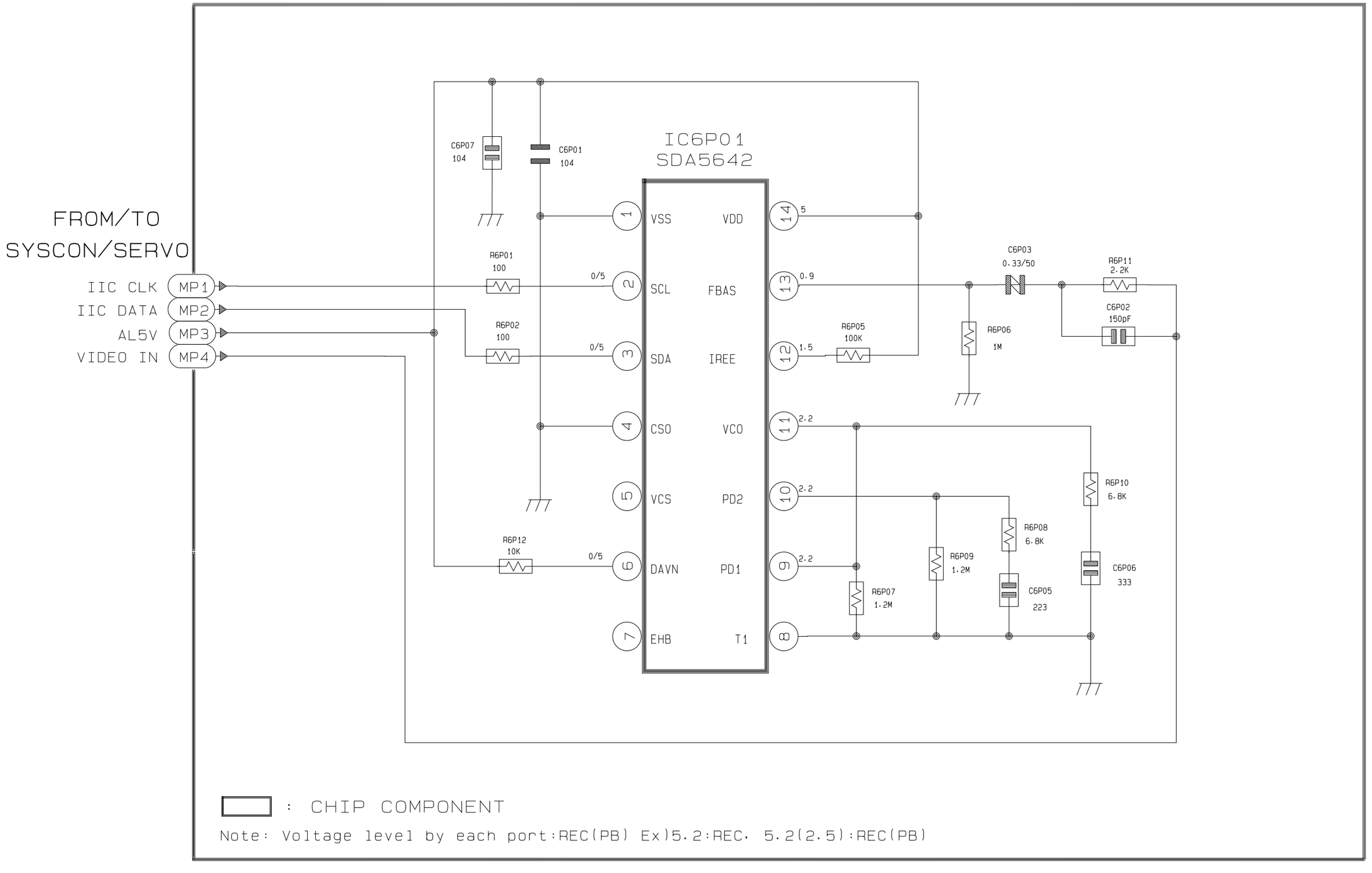


11-8 IF

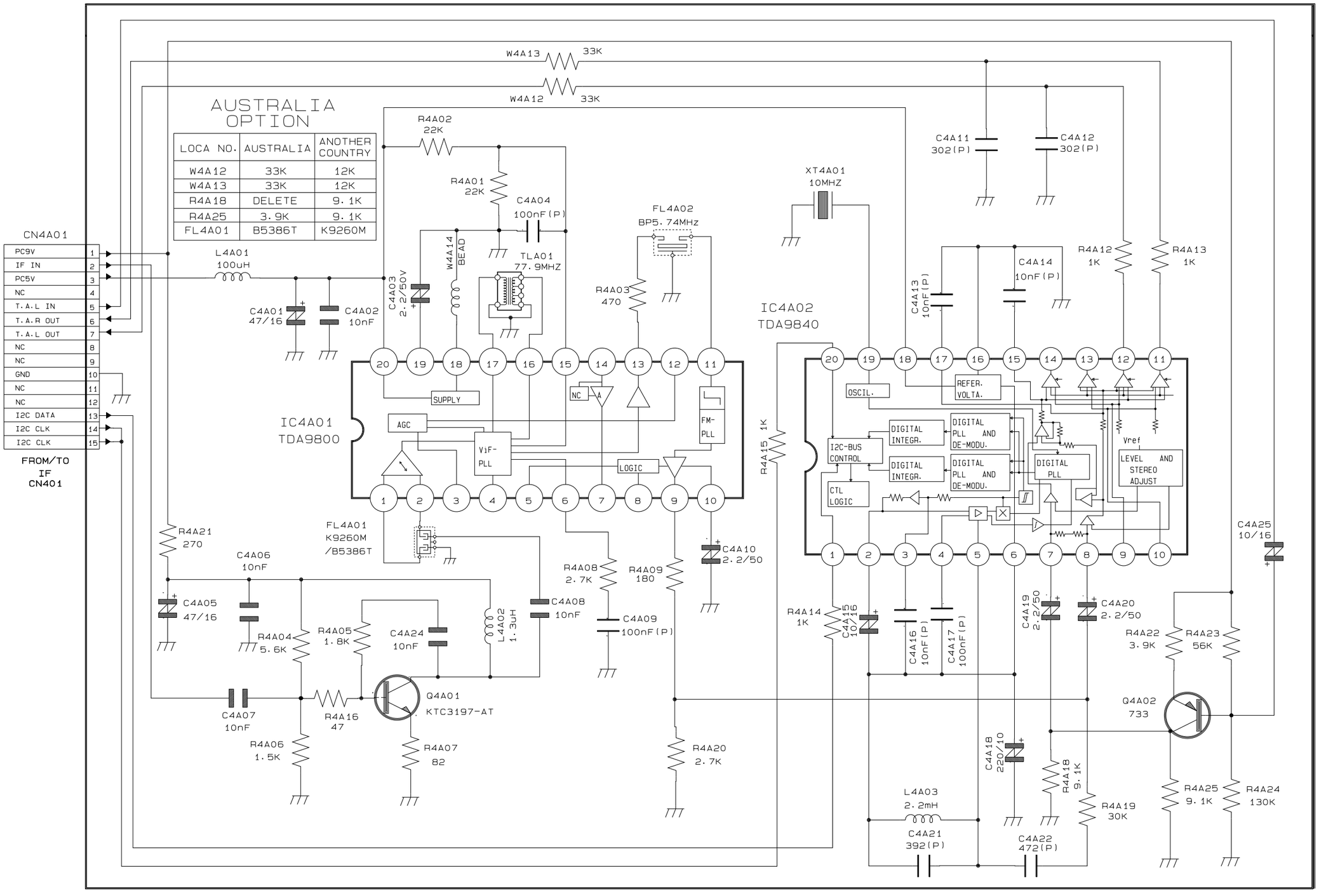


Spec.	Application Models
TMLG-105A	SV-717X/715X/617X/615X
TMLG-101A	SV-717B/617B/615B
TMLG-308A	SV-615G/B160B/B140G SVR-715/SVR-615

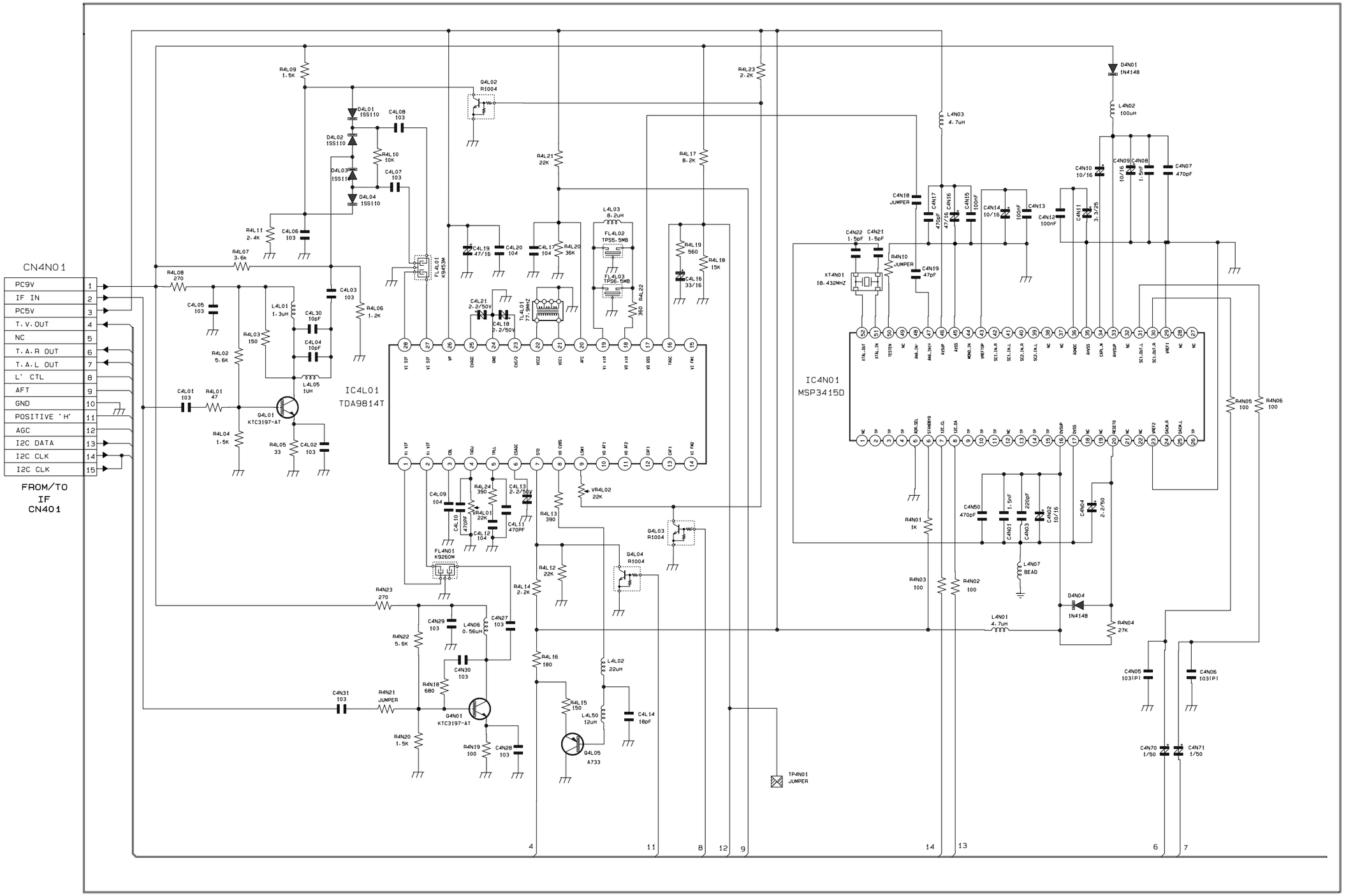
11-9 VPS/PDC


FROM/TO
SYSCON/SERVO
IIC CLK
IIC DATA
AL5V
VIDEO IN
MP1
MP2
MP3
MP4
IC6P01
SDA5642
C6P07
104
C6P01
104
R6P01
100
R6P02
100
R6P12
10K
0/5
VSS
SCL
SDA
CSO
VCS
DAVN
EHB
VDD
FBAS
IREE
VCO
PD2
PD1
T1
5
0.9
1.5
2.2
C6P03
0.33/50
R6P11
2.2K
C6P02
150pF
R6P06
1M
R6P05
100K
R6P10
6.8K
R6P08
6.8K
R6P09
1.2M
C6P06
333
C6P05
223
R6P07
1.2M
: CHIP COMPONENT
Note: Voltage level by each port:REC(PB) Ex)5.2:REC, 5.2(2.5):REC(PB)

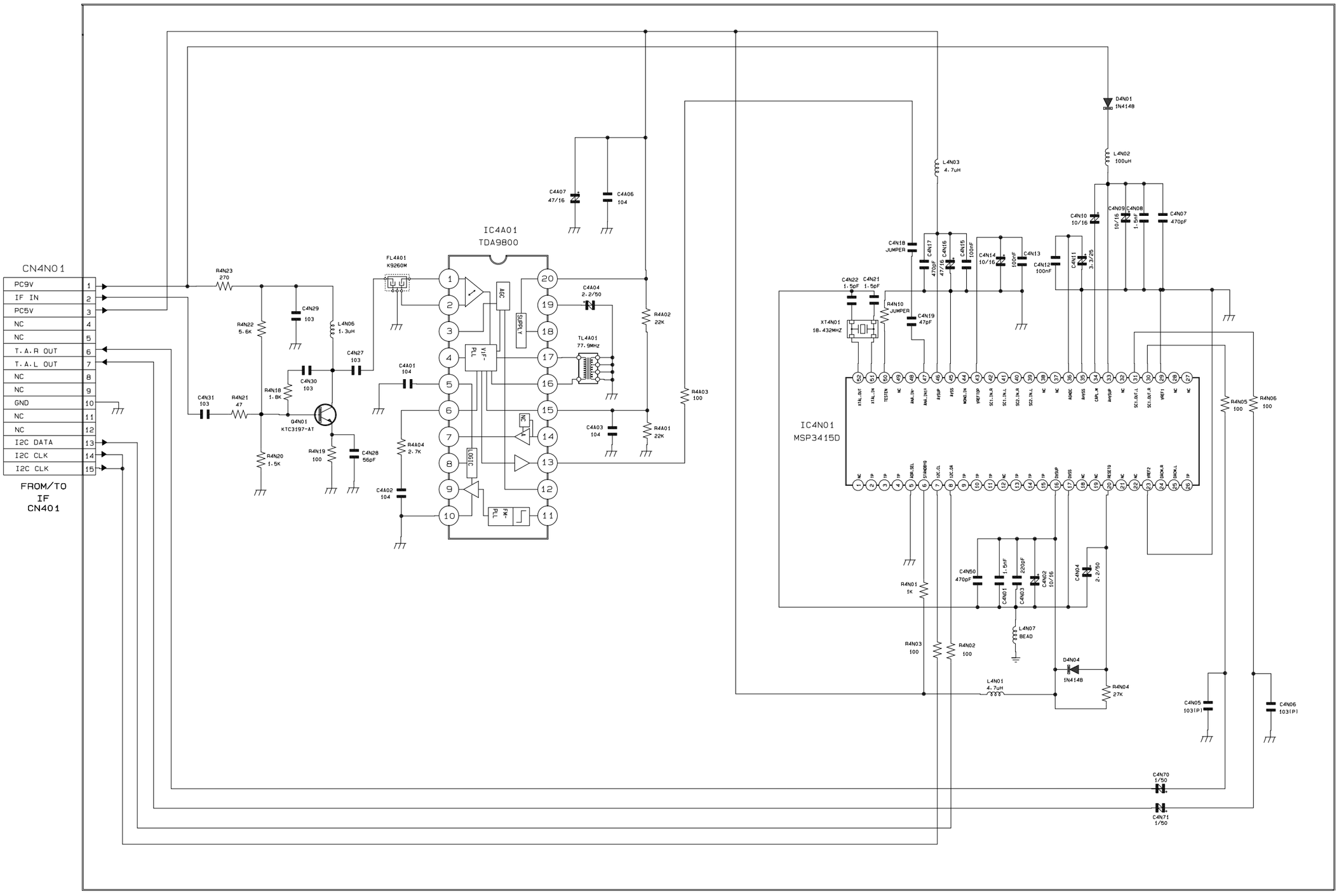
11-10 SUB (A2)


AUSTRALIA OPTION
LOCA NO. | AUSTRALIA | ANOTHER COUNTRY
W4A12 | 33K | 12K
W4A13 | 33K | 12K
R4A18 | DELETE | 9.1K
R4A25 | 3.9K | 9.1K
FL4A01 | B5386T | K9260M
CN4A01
PC9V
IF IN
PC5V
NC
T.A.L IN
T.A.R OUT
T.A.L OUT
NC
NC
GND
NC
NC
I2C DATA
I2C CLK
I2C CLK
FROM/TO IF CN401
W4A13 33K
W4A12 33K
R4A02 22K
R4A01 22K
C4A04 100nF(P)
L4A01 100uH
C4A01 47/16
C4A02 10nF
C4A03 2.2/50V
W4A14 BEAD
TLA01 77.9MHZ
FL4A02 BP5.74MHz
R4A03 470
IC4A01 TDA9800
SUPPLY
AGC
ViF-PLL
NC
A
FM-PLL
LOGIC
FL4A01 K9260M /B5386T
R4A21 270
C4A06 10nF
C4A05 47/16
R4A04 5.6K
R4A05 1.8K
C4A24 10nF
L4A02 1.3uH
C4A08 10nF
R4A08 2.7K
C4A09 100nF(P)
R4A09 180
C4A10 2.2/50
C4A07 10nF
R4A16 47
Q4A01 KTC3197-AT
R4A06 1.5K
R4A07 82
R4A20 2.7K
R4A15 1K
XT4A01 10MHZ
C4A11 302(P)
C4A12 302(P)
C4A13 10nF(P)
C4A14 10nF(P)
R4A12 1K
R4A13 1K
IC4A02 TDA9840
OSCIL.
REFER. VOLTA.
DIGITAL INTEGR.
DIGITAL PLL AND DE-MODU.
I2C-BUS CONTROL
CTL LOGIC
DIGITAL PLL
Vref
LEVEL AND STEREO ADJUST
R4A14 1K
C4A15 10/16
C4A16 10nF(P)
C4A17 100nF(P)
C4A19 2.2/50
C4A20 2.2/50
C4A25 10/16
R4A22 3.9K
R4A23 56K
Q4A02 733
C4A18 220/10
R4A18 9.1K
R4A19 30K
R4A25 9.1K
R4A24 130K
L4A03 2.2mH
C4A21 392(P)
C4A22 472(P)

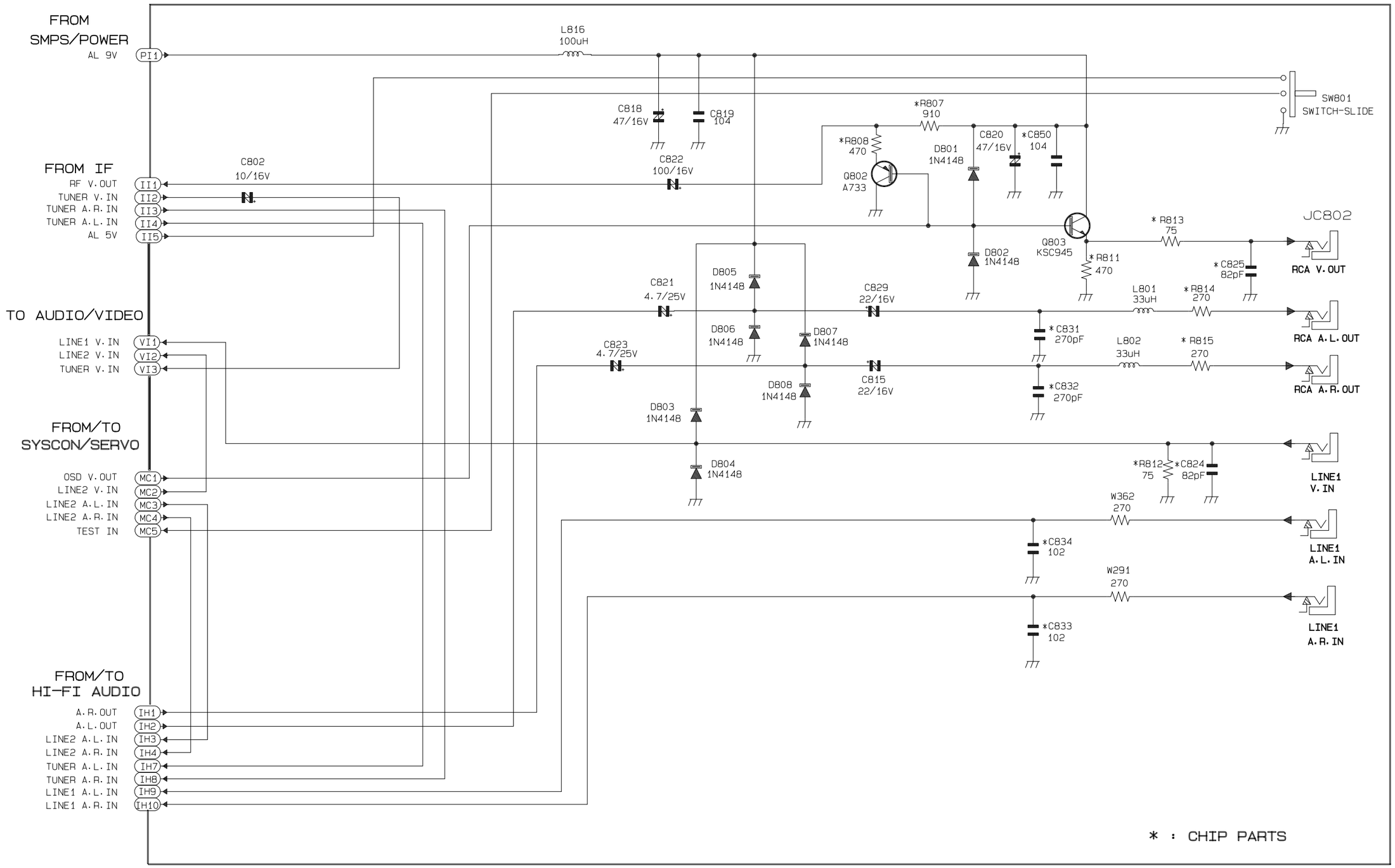
11-11 SUB (A2/NICAM) ; SV-717F/617F Only



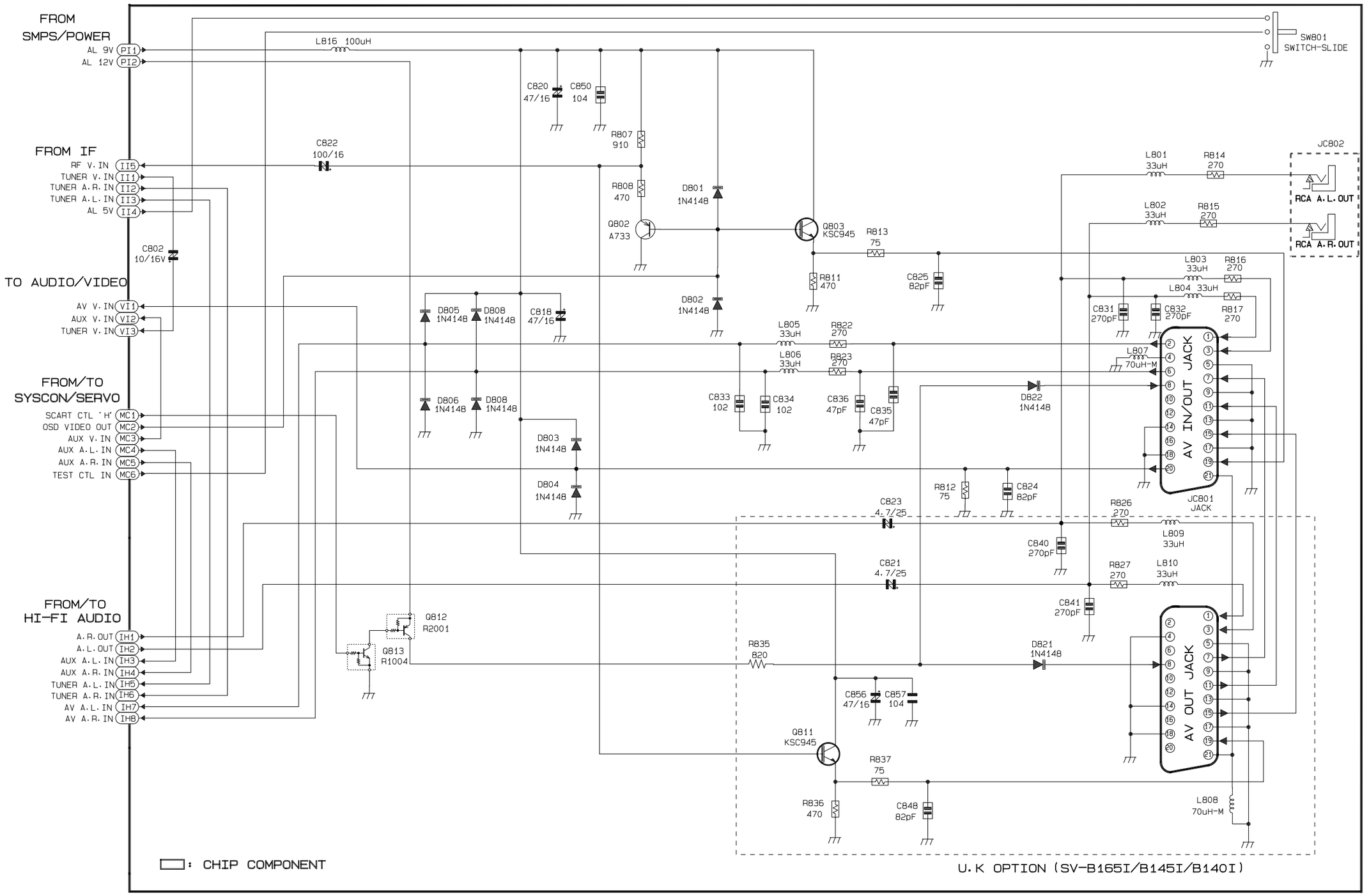
11-12 SUB (A2/NICAM)



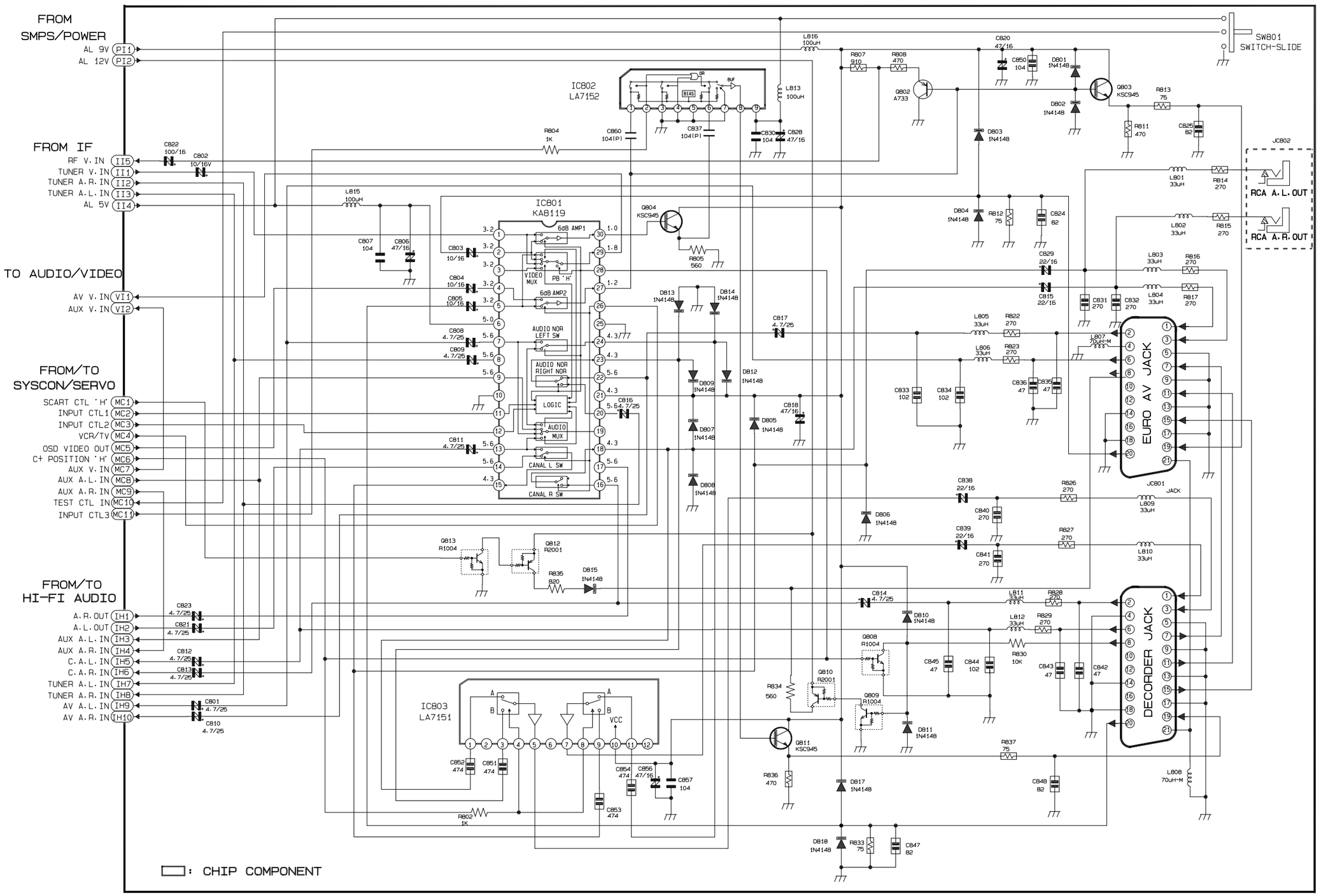
11-13 I/O (RCA)


FROM
SMPS/POWER
AL 9V
PI1
L815
100uH
C818
47/16V
C819
104
C822
100/16V
SW801
SWITCH-SLIDE
*R807
910
*R808
470
Q802
A733
D801
1N4148
C820
47/16V
*C850
104
FROM IF
RF V.OUT
TUNER V.IN
TUNER A.R.IN
TUNER A.L.IN
AL 5V
II1
II2
II3
II4
II5
C802
10/16V
Q803
KSC945
D802
1N4148
*R811
470
*R813
75
JC802
*C825
82pF
RCA V.OUT
D805
1N4148
C821
4.7/25V
C829
22/16V
L801
33uH
*R814
270
TO AUDIO/VIDEO
LINE1 V.IN
LINE2 V.IN
TUNER V.IN
VI1
VI2
VI3
D806
1N4148
D807
1N4148
*C831
270pF
C823
4.7/25V
L802
33uH
*R815
270
RCA A.L.OUT
D808
1N4148
C815
22/16V
*C832
270pF
RCA A.R.OUT
D803
1N4148
FROM/TO
SYSCON/SERVO
OSD V.OUT
LINE2 V.IN
LINE2 A.L.IN
LINE2 A.R.IN
TEST IN
MC1
MC2
MC3
MC4
MC5
D804
1N4148
*R812
75
*C824
82pF
LINE1
V.IN
W362
270
*C834
102
LINE1
A.L.IN
W291
270
*C833
102
LINE1
A.R.IN
FROM/TO
HI-FI AUDIO
A.R.OUT
A.L.OUT
LINE2 A.L.IN
LINE2 A.R.IN
TUNER A.L.IN
TUNER A.R.IN
LINE1 A.L.IN
LINE1 A.R.IN
IH1
IH2
IH3
IH4
IH7
IH8
IH9
IH10
* : CHIP PARTS

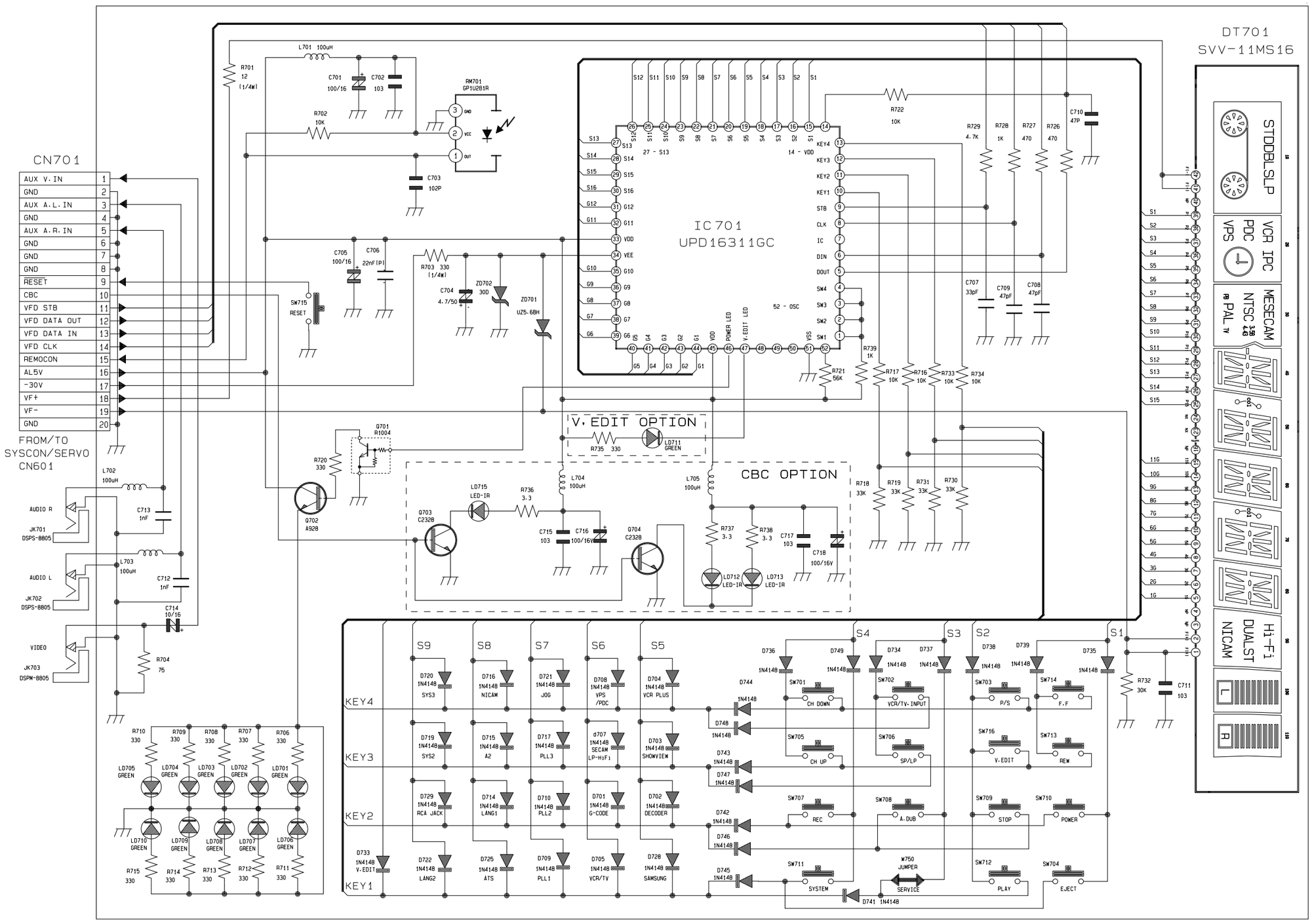
11-14 I/O (1 SCART)



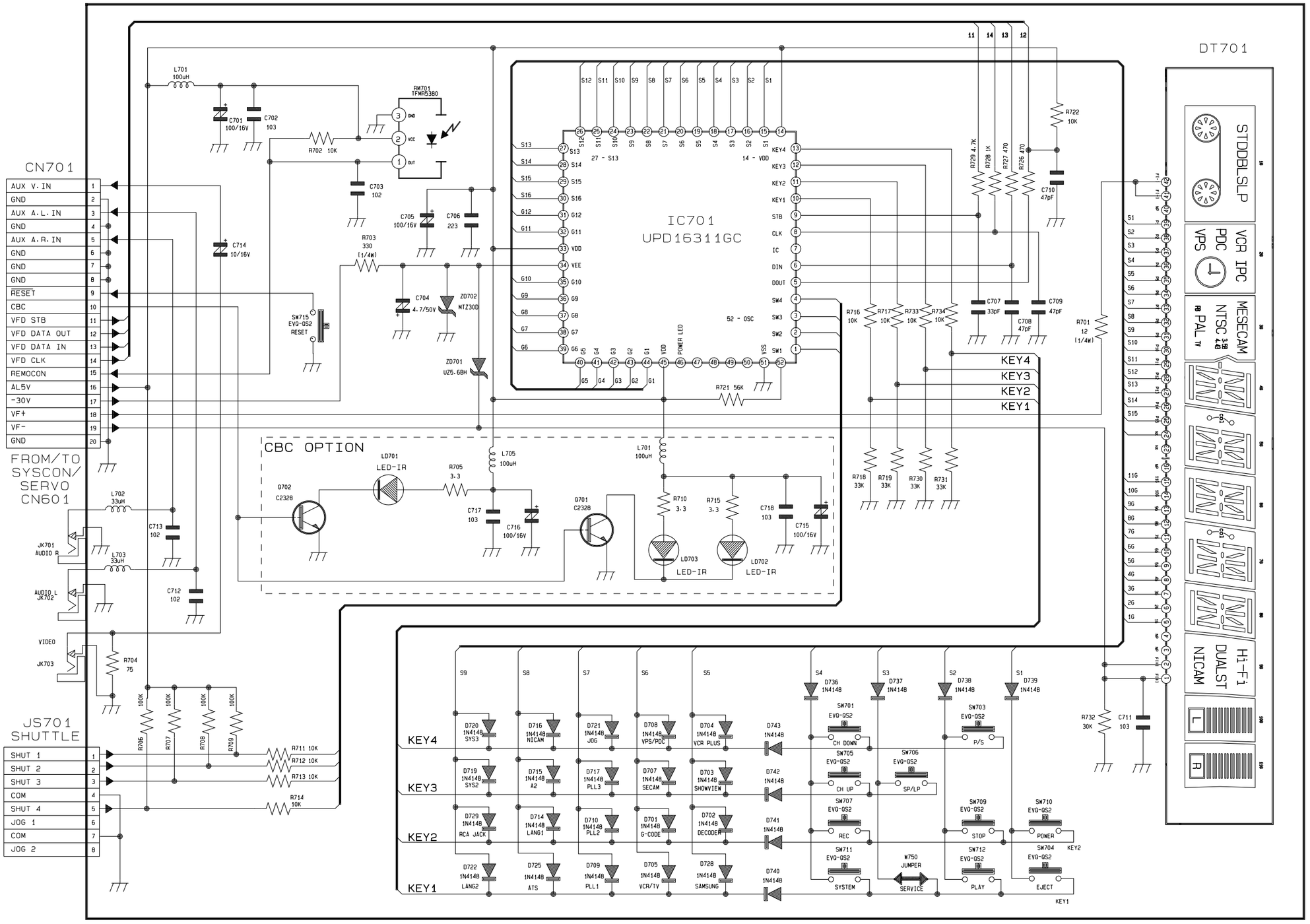
11-15 I/O (2 SCART)



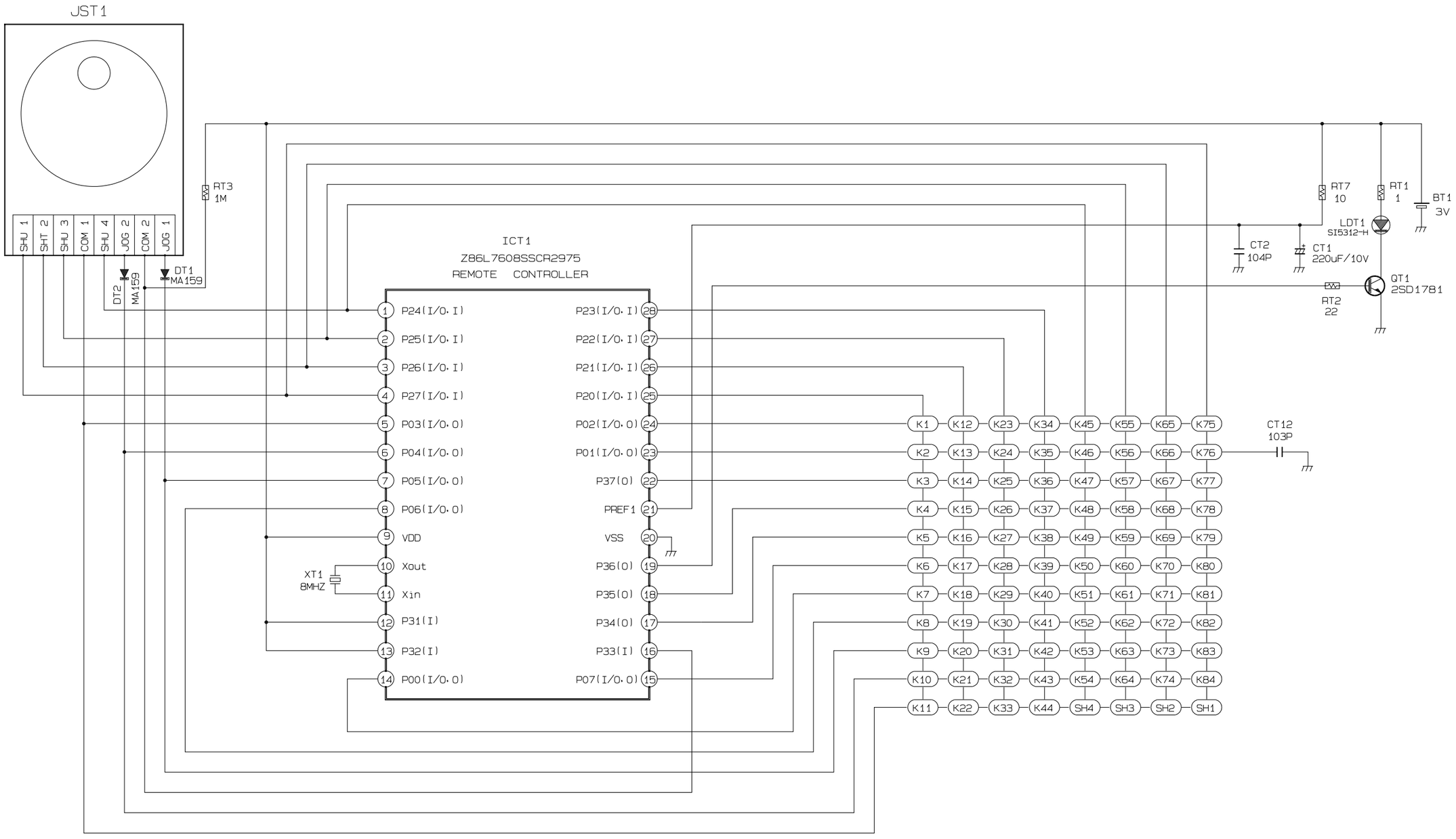
11-16 Function-Timer (SV-717X/715X/700XK/717F/717B/B160B/SVR-715)



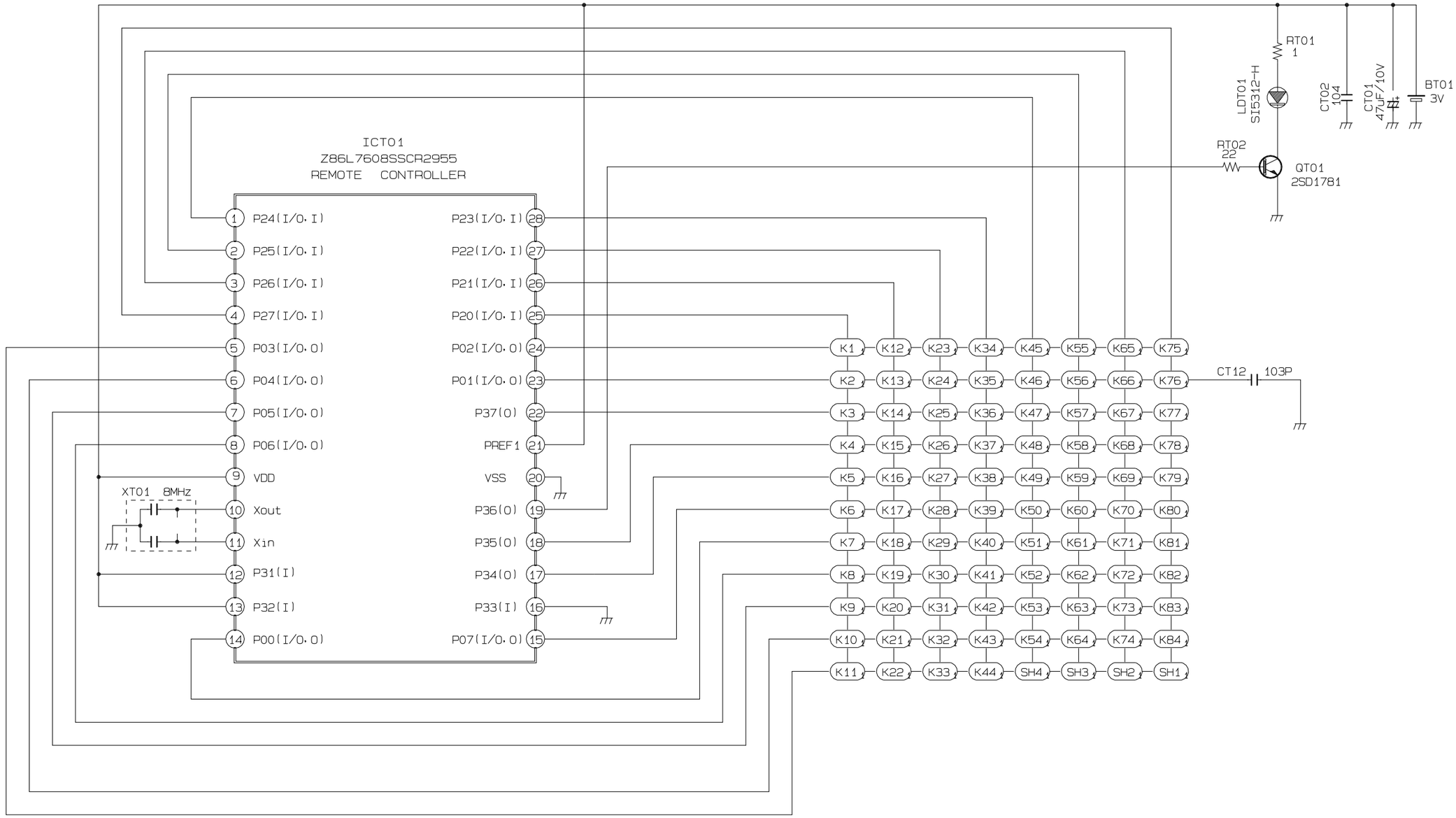
11-17 Function-Timer (SV-617X/615X/617F/617B/615B/615G/B140G/SVR-615)



11-18 Remote-Control (Suhttle)



11-19 Remote-Control (Without Shuttle)



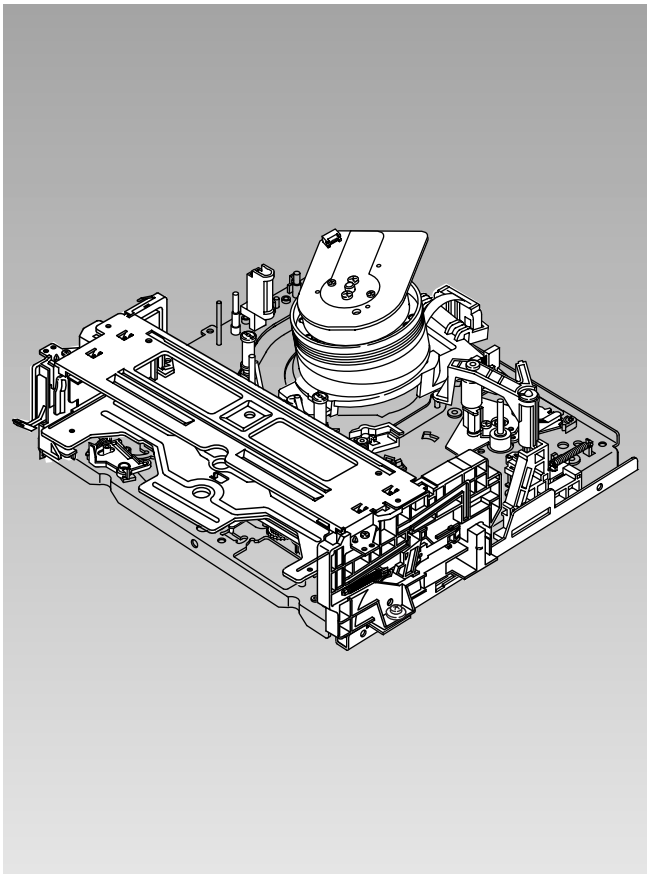
SAMSUNG

DX7-A/DX7-AC
DX8-A/DX8-AC

MECHANICAL Manual

◆ File with the SERVICE MANUAL.

VHS DECK



CONTENTS

1. Disassembly and Reassembly

2. Alignment and Adjustment

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AC68-20392A

1. Disassembly and Reassembly

1-1 Deck Parts Locations

1-1-1 Deck (Top View)

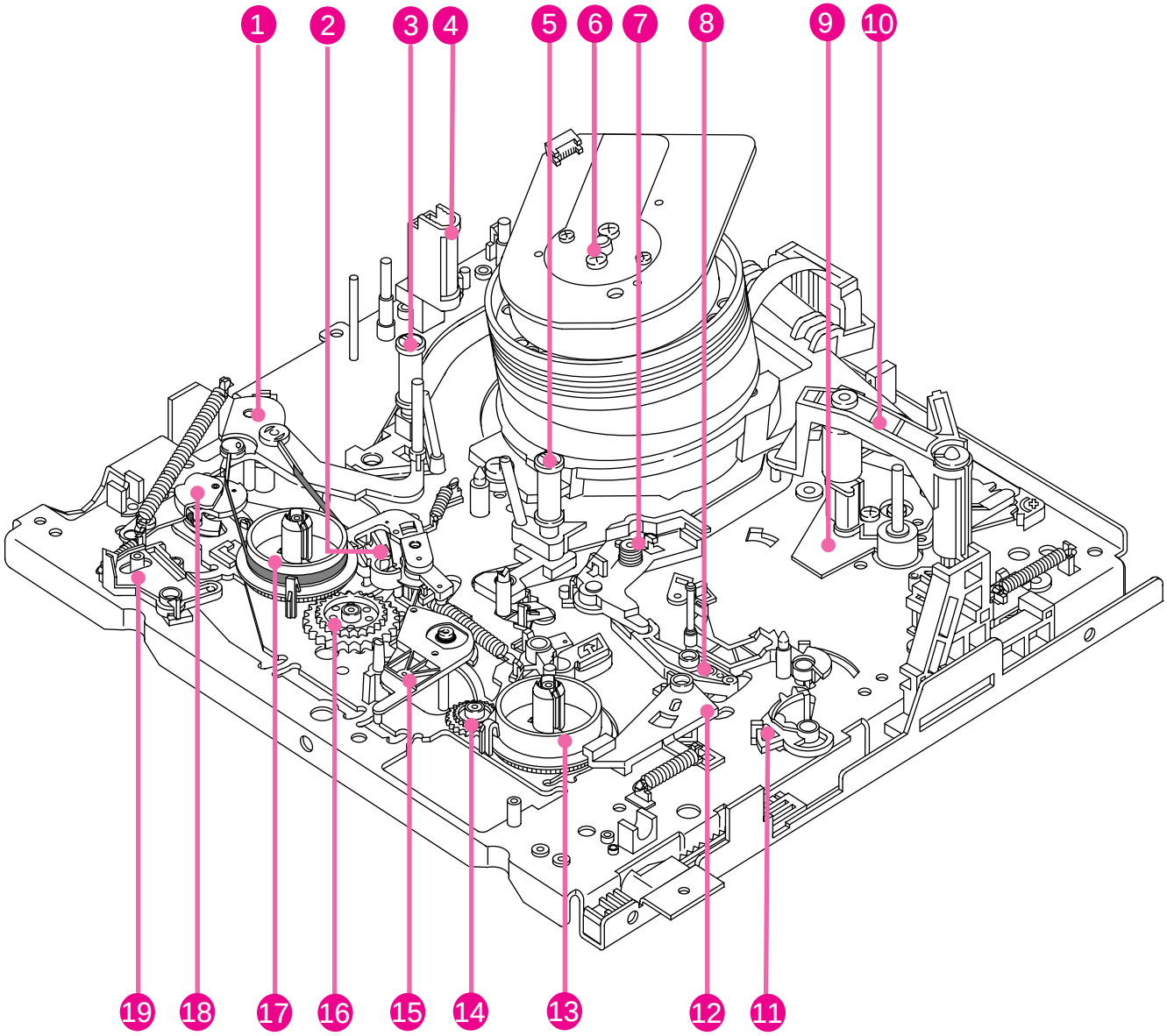


Fig. 1-1 Deck Top Parts Location (DX7-A/DX8-A DECK ONLY)

1. ARM TENSION FULL ASS'Y
2. BRAKE MAIN "L" ASS'Y
3. GUIDE ROLLER ASS'Y "T"
4. FULL ERASE HEAD
5. GUIDE ROLLER ASS'Y "S"
6. CYLINDER ASS'Y
7. LEVER PINCH COMP ASS'Y
8. LEVER PINCH CAM
9. FULL ACE HEAD AAS'Y
10. UNIT PINCH ROLLER ASS'Y
11. LEVER REVIEW
12. BRAKE SUB "R" ASS'Y
13. REEL DISK "R" ASS'Y
14. GEAR RELAY "T" ASS'Y
15. IDLER ASS'Y
16. GEAR RELAY "S" ASS'Y
17. REEL DISK "L" ASS'Y
18. LEVER JOG ASS'Y (DX8-A/AC ONLY)
19. LEVER REC SWITCH

1-1-2 Deck (Top View)

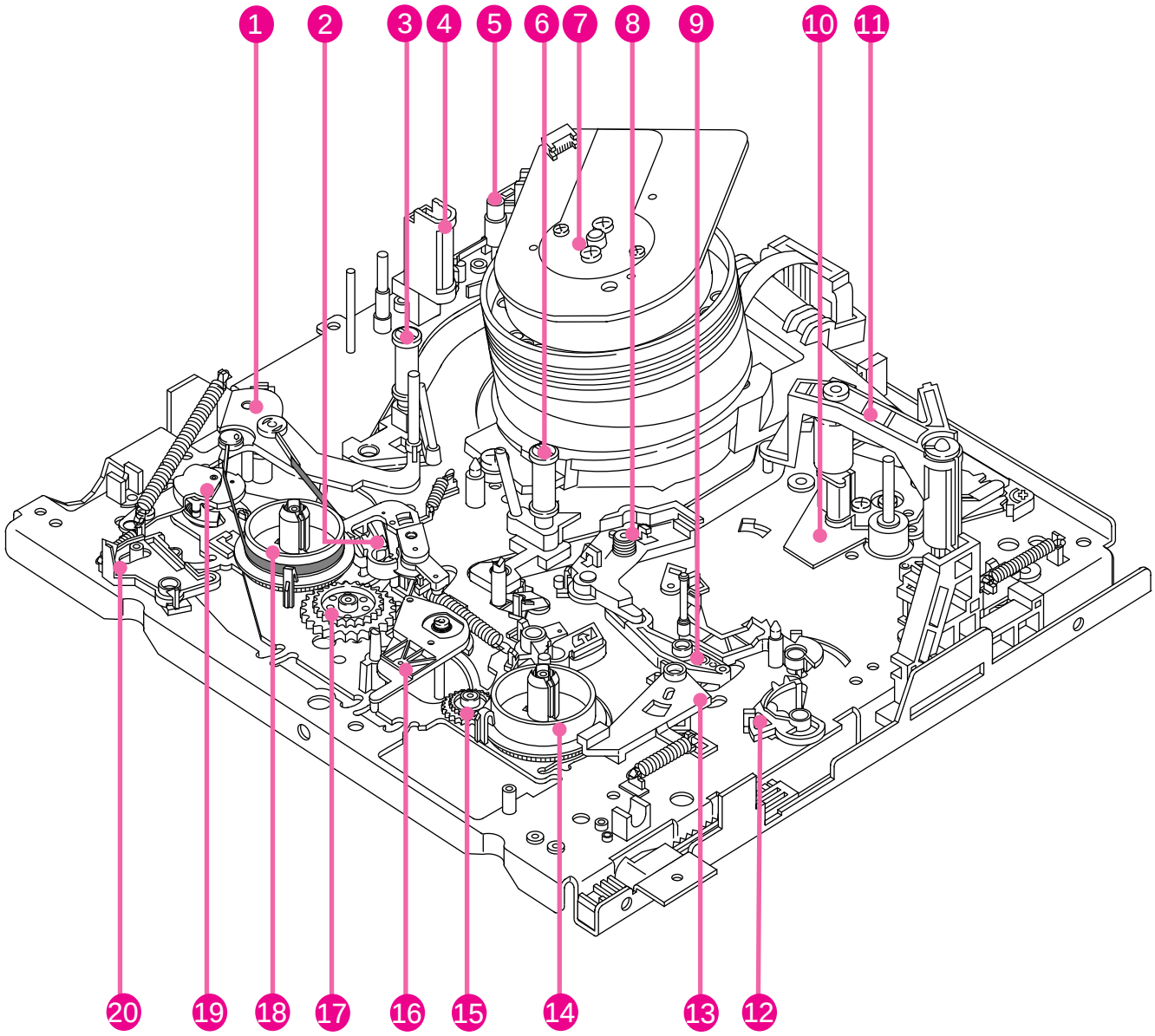


Fig. 1-2 Deck Top Parts Location (DX7-AC/DX8-AC DECK ONLY)

1. ARM TENSION FULL ASS'Y
2. BRAKE MAIN "L" ASS'Y
3. GUIDE ROLLER ASS'Y "T"
4. FULL ERASE HEAD
5. HEAD CLEANER ASS'Y (DX7-AC/DX8-AC ONLY)
6. GUIDE ROLLER ASS'Y "S"
7. CYLINDER ASS'Y
8. LEVER PINCH COMP ASS'Y
9. LEVER PINCH CAM
10. FULL ACE HEAD AAS'Y
11. UNIT PINCH ROLLER ASS'Y
12. LEVER REVIEW
13. BRAKE SUB "R" ASS'Y
14. REEL DISK "R" ASS'Y
15. GEAR RELAY "T" ASS'Y
16. IDLER ASS'Y
17. GEAR RELAY "S" ASS'Y
18. REEL DISK "L" ASS'Y
19. LEVER JOG ASS'Y (DX8-A/AC ONLY)
20. LEVER REC SWITCH

1-1-3 Deck (Bottom View)

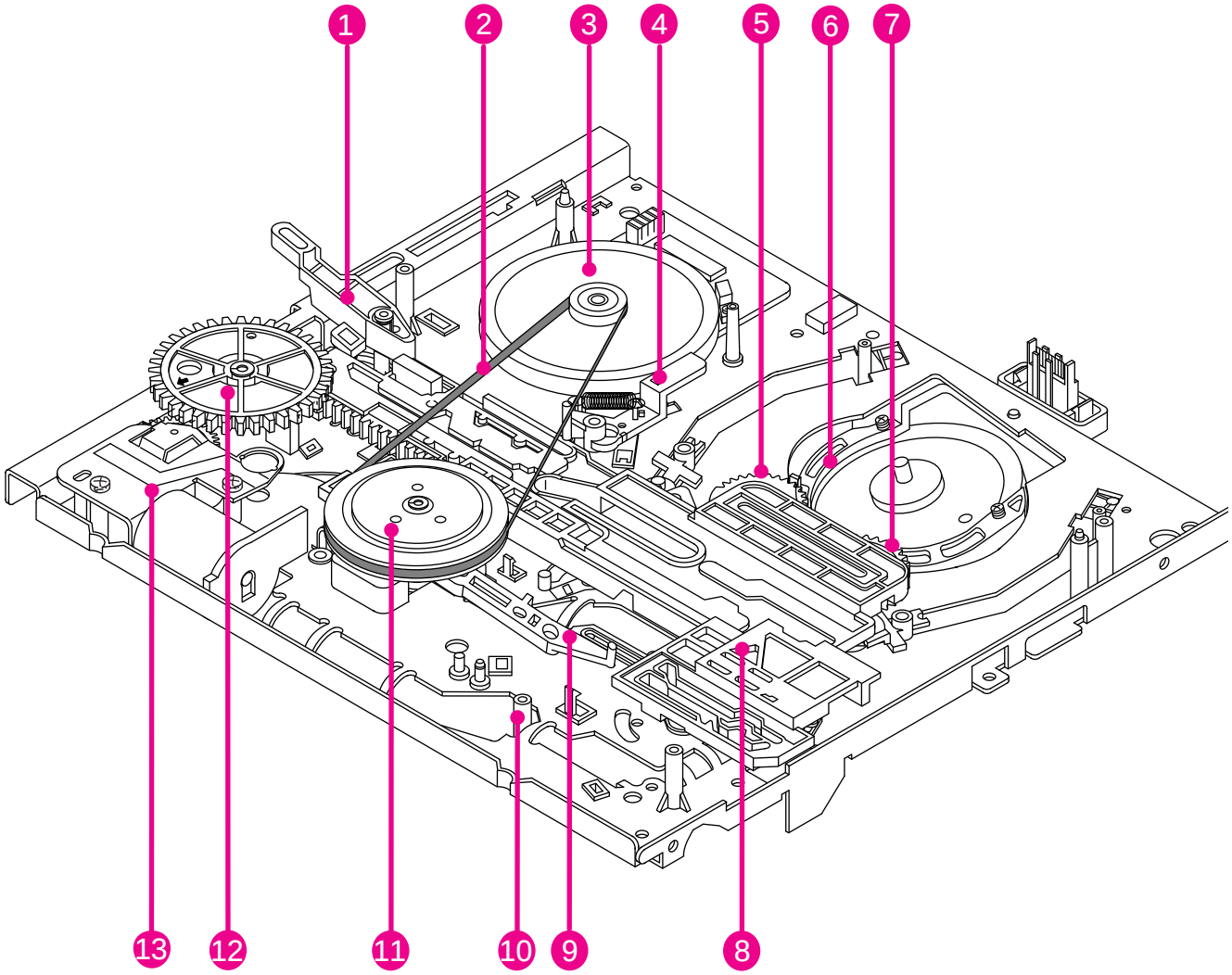


Fig. 1-3 Deck Bottom Parts Location

1. LEVER SLIDE PINCH
2. BELT CAPSTAN
3. MOTOR D.D CAPSTAN
4. BRAKE CAPSTAN ASS'Y
5. GEAR LOADING "R" ASS'Y
6. MOTOR CYLINDER
7. GEAR LOADING "L" ASS'Y
8. SLIDE MAIN
9. LEVER REC SWITCH
10. LEVER IDLER CHANGE
11. CLUTCH ASS'Y
12. UNIT LOADING
13. GEAR MASTER

1-1-4 Housing

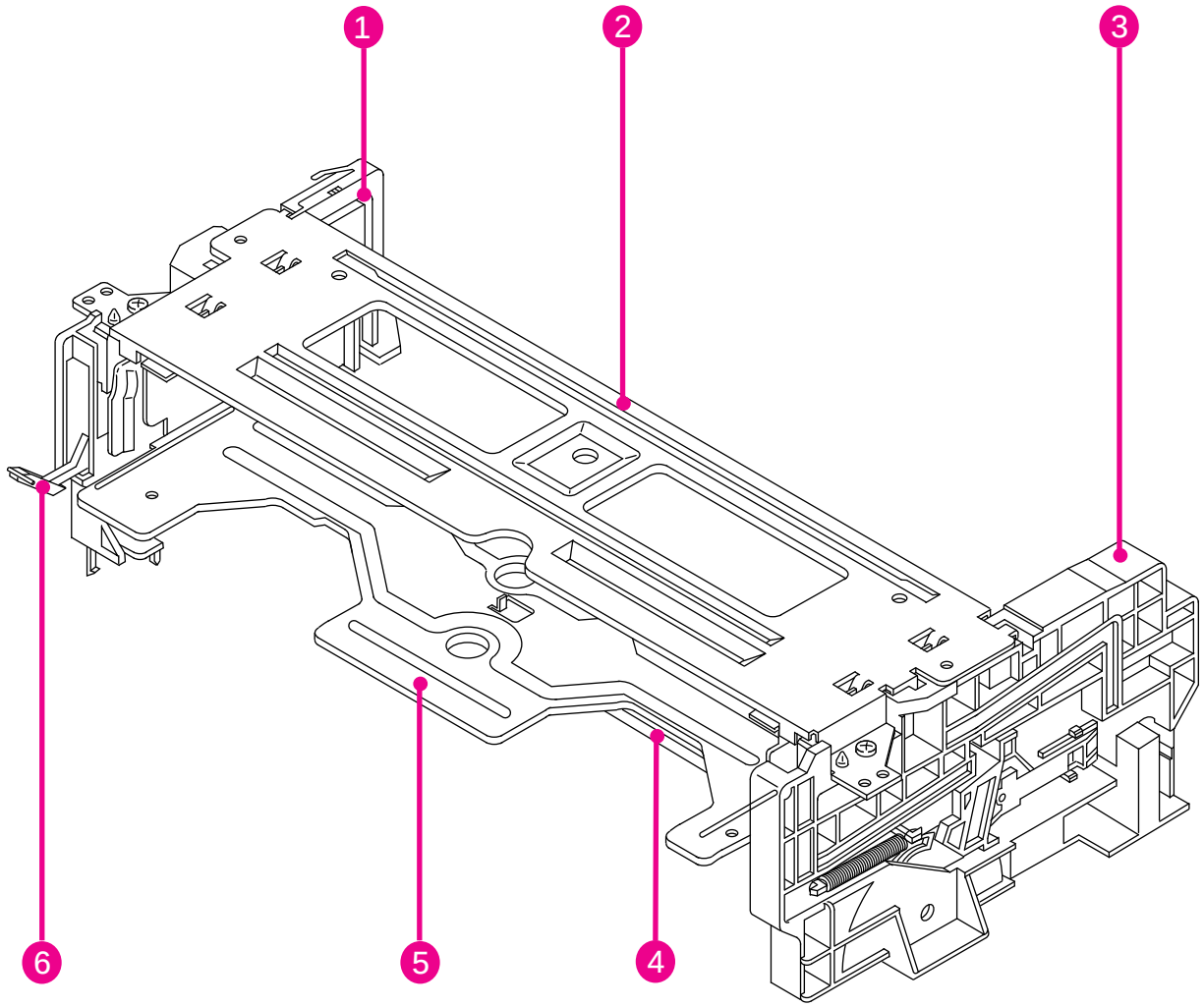


Fig. 1-4 Housing Parts Location

1. CHASSIS SIDE “L” ASS’Y
2. UPPER CHASSIS
3. CHASSIS SIDE “R” ASS’Y
4. SHAFT ARM ASS’Y
5. HOLDER CASSETTE ASS’Y
6. LEVER DOOR

1-2 Housing Assembly

1-2-1 Removal from Main Base

1. Remove 3 Screws ①.
2. Lift the Housing Ass'y in the direction of arrow "B", while pushing the tab ② in the direction of arrow "A". (Refer to detail drawing)

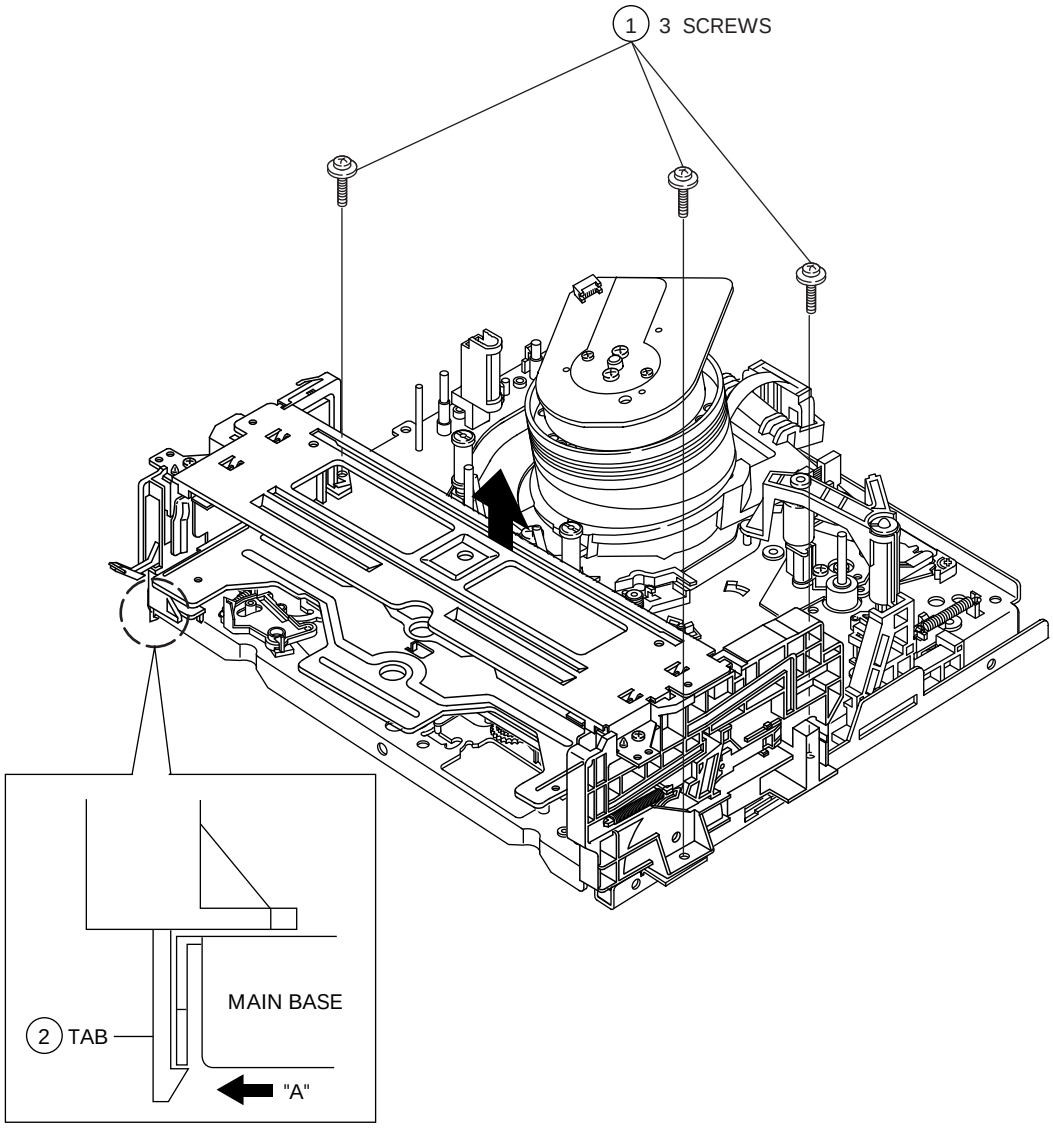


Fig. 1-5 Housing Ass'y Removal from Main Base

1-2-2 Diassembly

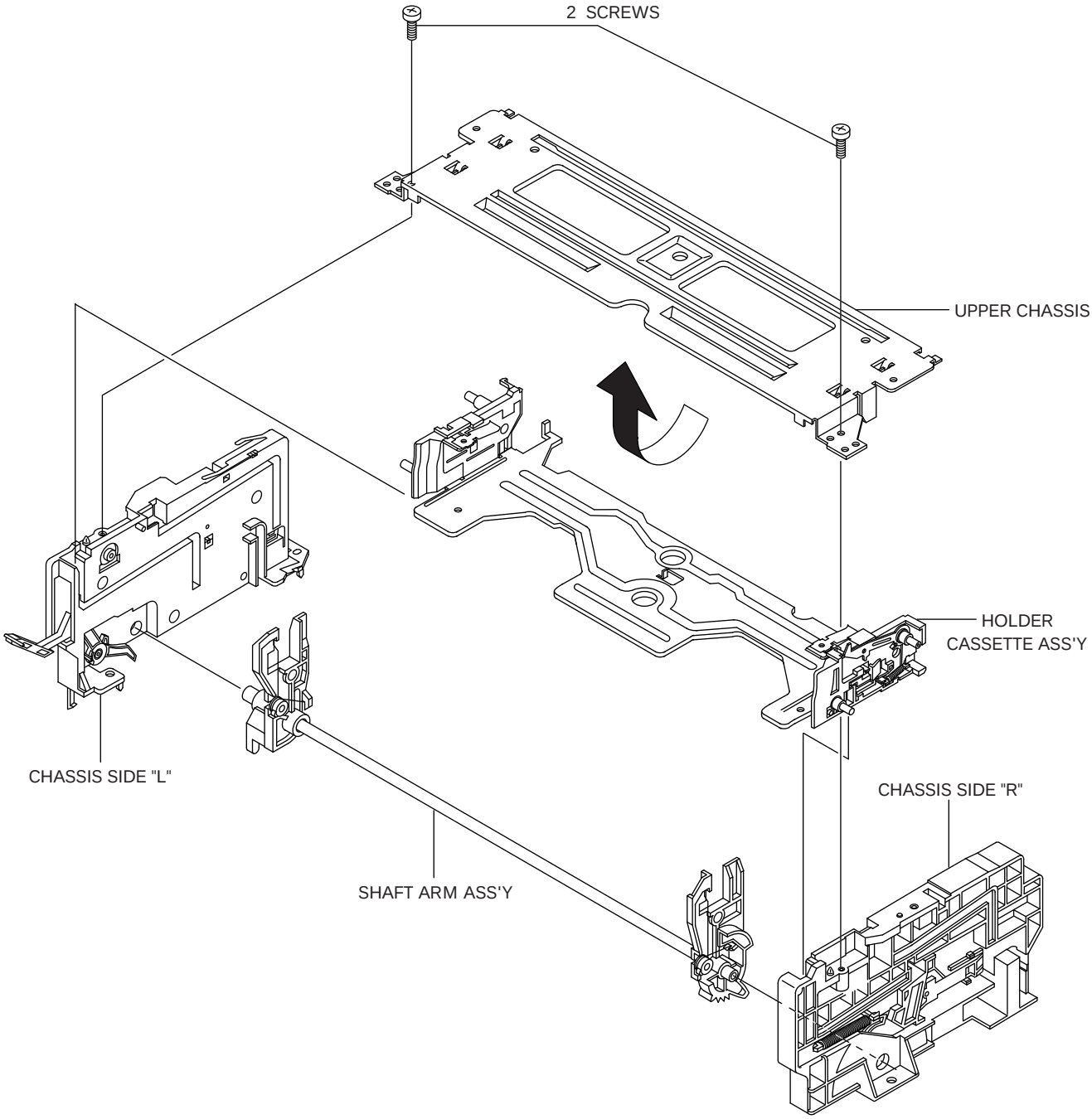


Fig. 1-6 Housing Ass'y Removal

1-2-3 Upper Chassis Removal

1. Remove 2 Screws ①.
2. Lift the Upper Chassis ② in the direction of arrow "A".

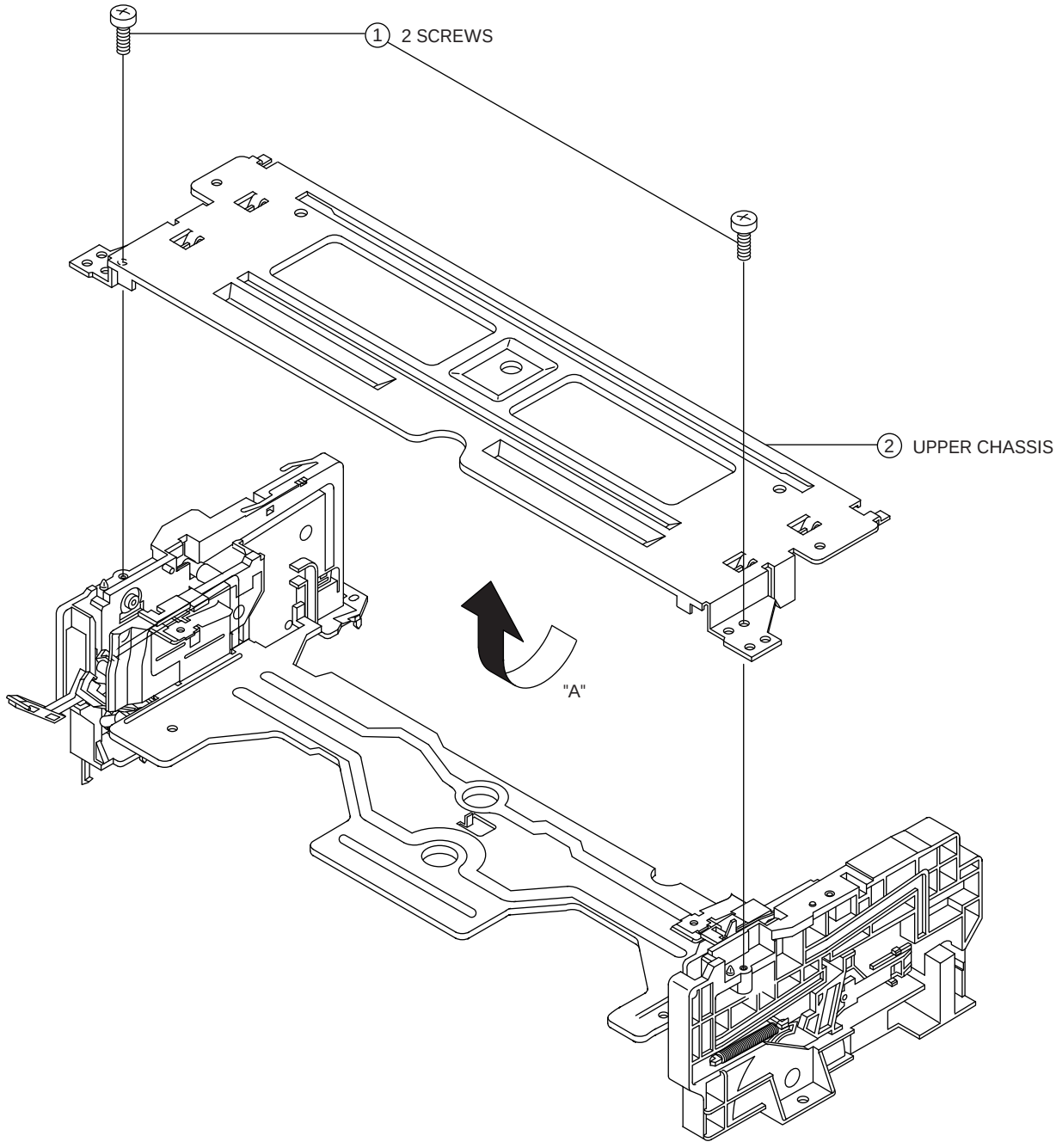


Fig. 1-7 Upper Chassis Removal

1-2-4 Holder Cassette Ass'y and Chassis Side L/R Removal

1. Lift the Cassette Holder ① in the direction of arrow "A" (Refer to Fig. A).
2. Remove the Side Chassis "L" ② and "R" ③ from Arm Shaft Ass'y ④ in the direction of arrow "B", "C" (Refer to Fig. B).

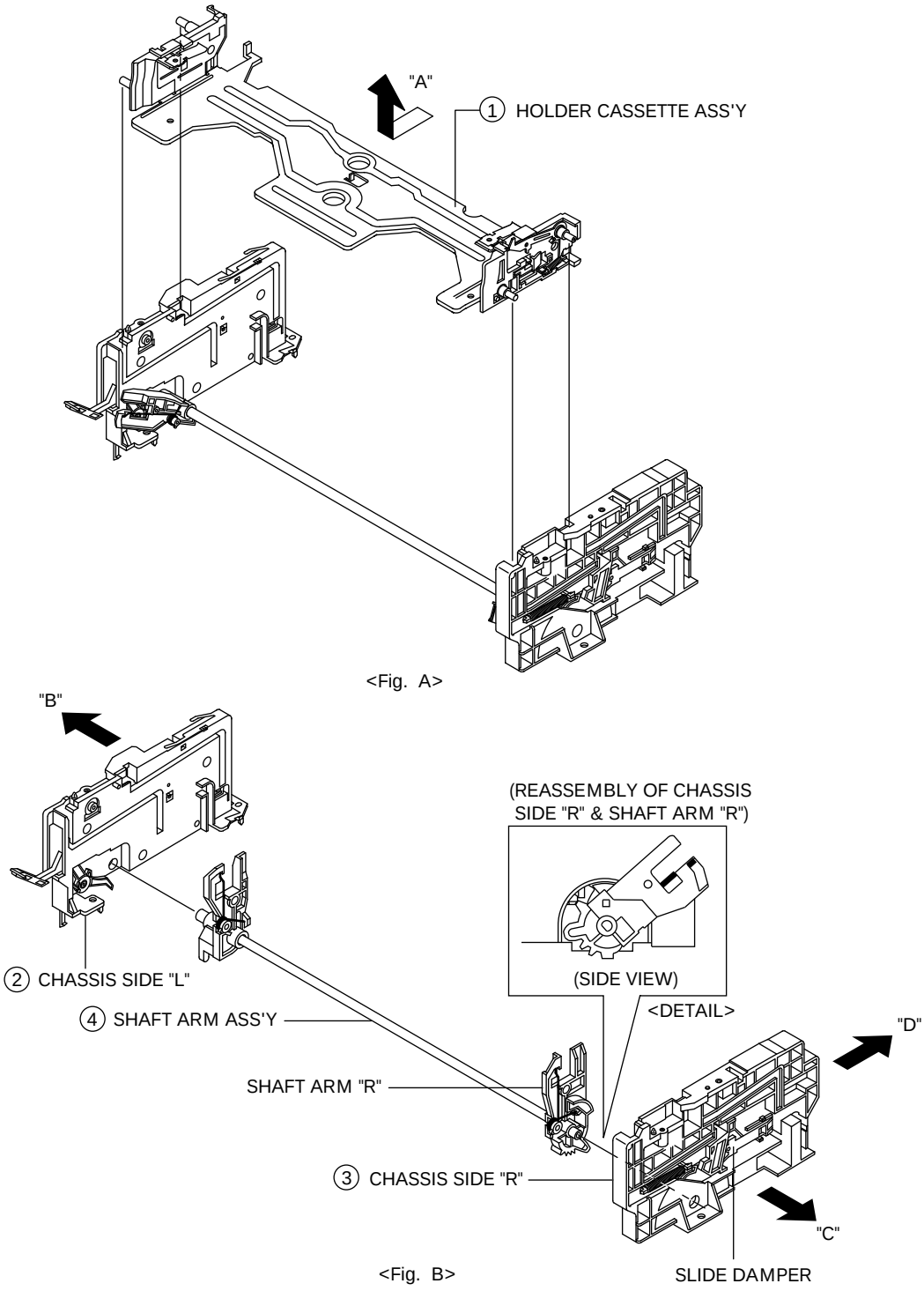


Fig. 1-8 Holder Cassette Ass'y and Chassis Side L/R

1-2-5 Chassis Side “R” Parts Locations

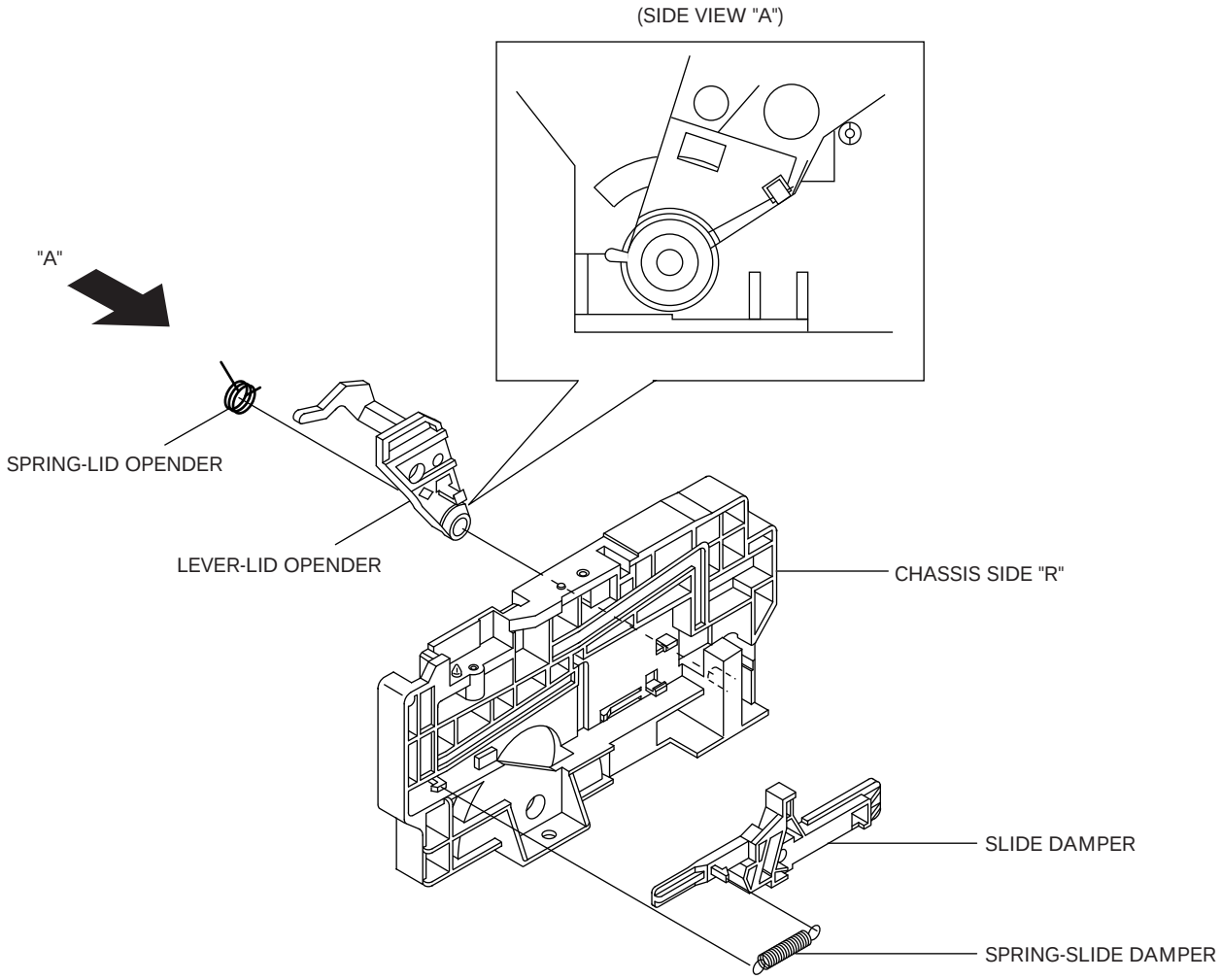


Fig. 1-9 Chassis Side “R” Parts Locations

Note : If you operate the deck when the Cassette Ass’y Holder is removed, the Arm Shaft “R” and the Damper Slide are not returned to their original positions. If this happens by accident, push the Damper Slide of Side Chassis “R” in the direction of arrow “D”, and return the Damper Slide in the reverse direction of arrow “D” when the Arm Shaft Ass’y is in eject mode.

1-2-6 Slide Damper Removal

1. Remove the Slide Damper Spring ①.
2. Push the Stopper ③ of the Side Chassis "R" ④. Move the Damper Slide ② in the direction of arrow.
3. Align the Damper Slide ② with the chassis side tab (as shown detail drawing).

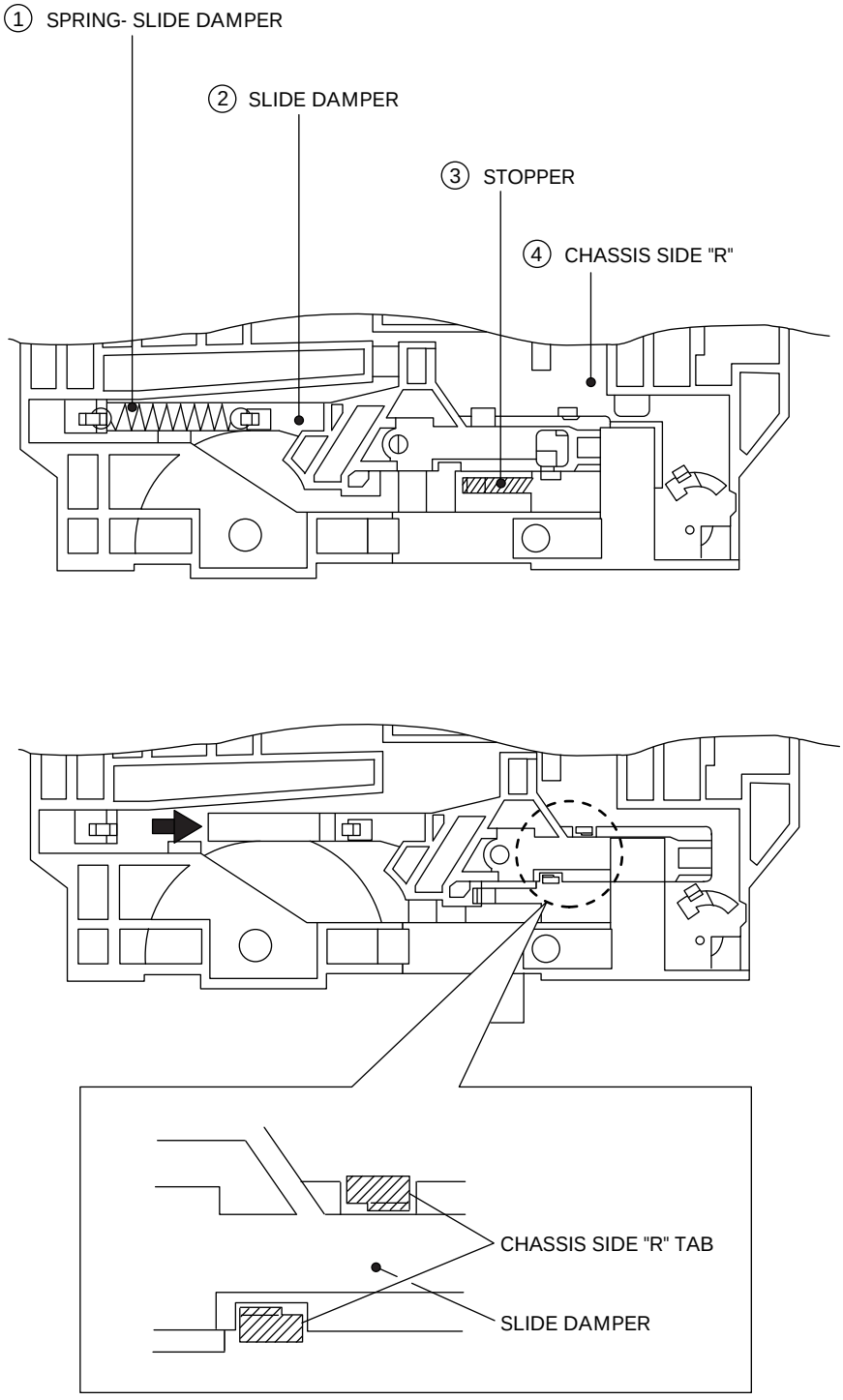


Fig. 1-10 Slide Damper Removal

1-3 Cylinder Ass'y

1-3-1 Exploded View of Cylinder Ass'y

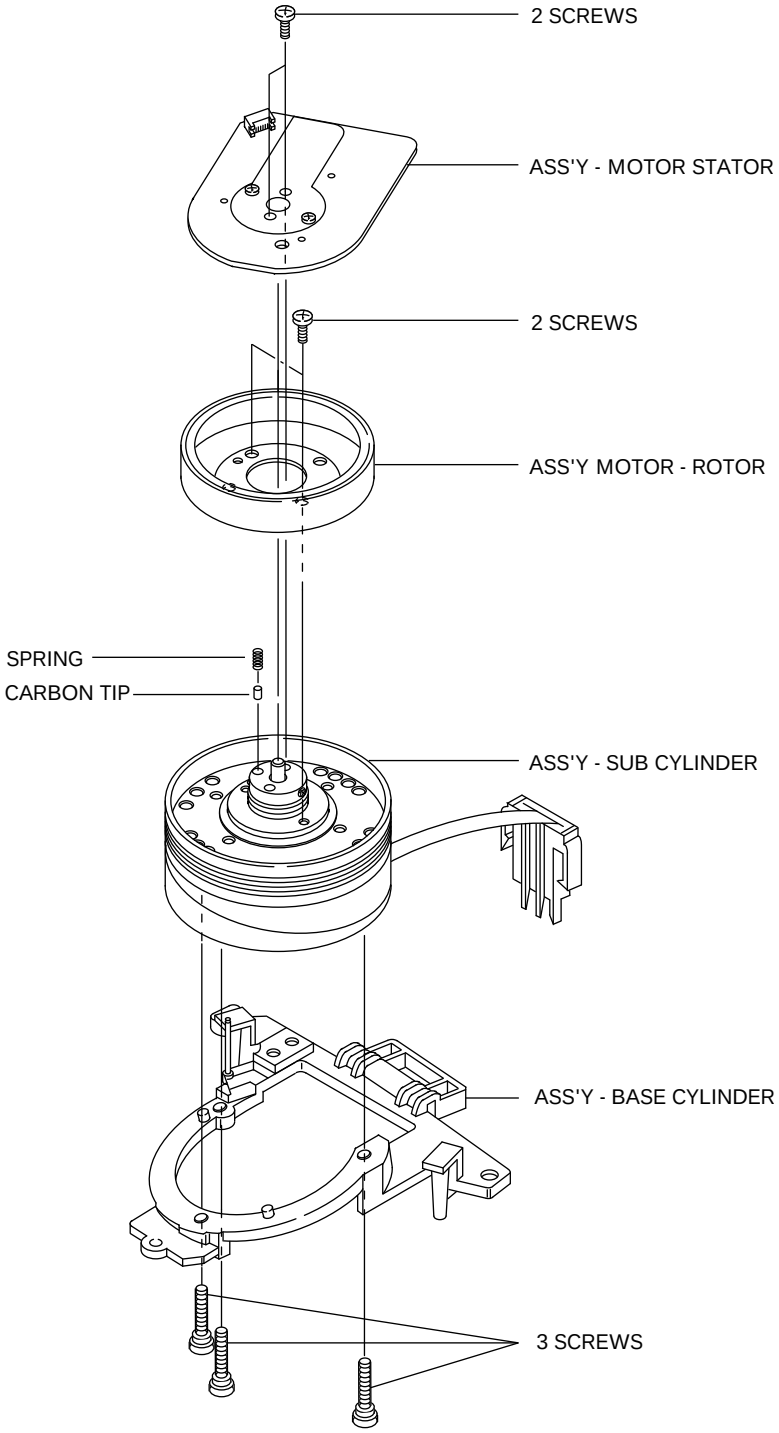


Fig. 1-11 Expleded View of Cylinder Ass'y

1-3-2 Stopper Tape Removal (Only for Deck : DX7-A/DX8-A)

1. Release 1 tab ① in the direction of arrow "A". (Refer to detail drawing)
2. Lift the Tape Stopper ② in the direction of arrow "B".

Note: Stopper tape has deleted from JAN.1998

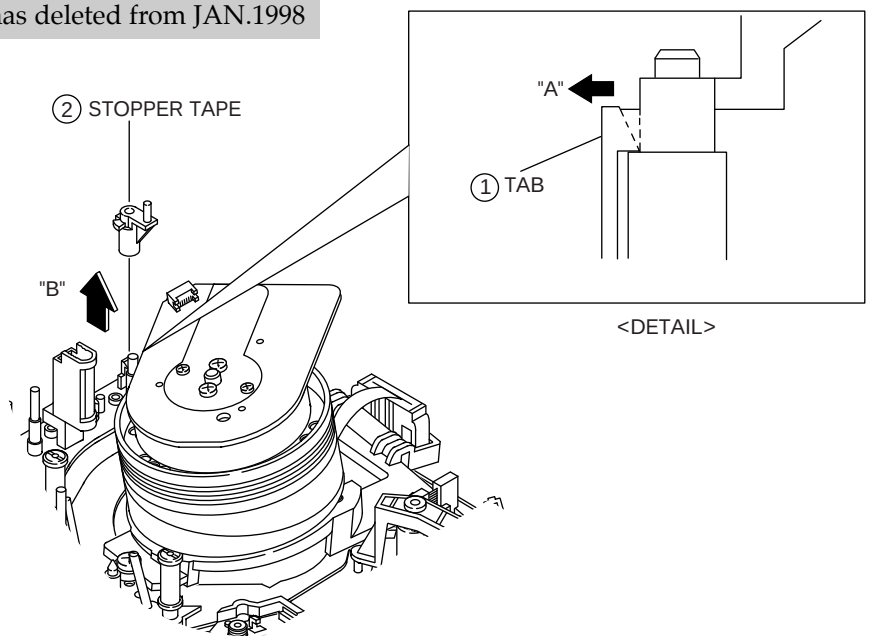


Fig. 1-12 Stopper Tape Removal

1-3-3 Head Cleaner Ass'y Removal (Only for Deck : DX7-AC/DX8-AC)

1. Release 1 tab ① in the direction of arrow "A". (Refer to detail drawing)
2. Lift the Head Cleaner ② in the direction of arrow "B".

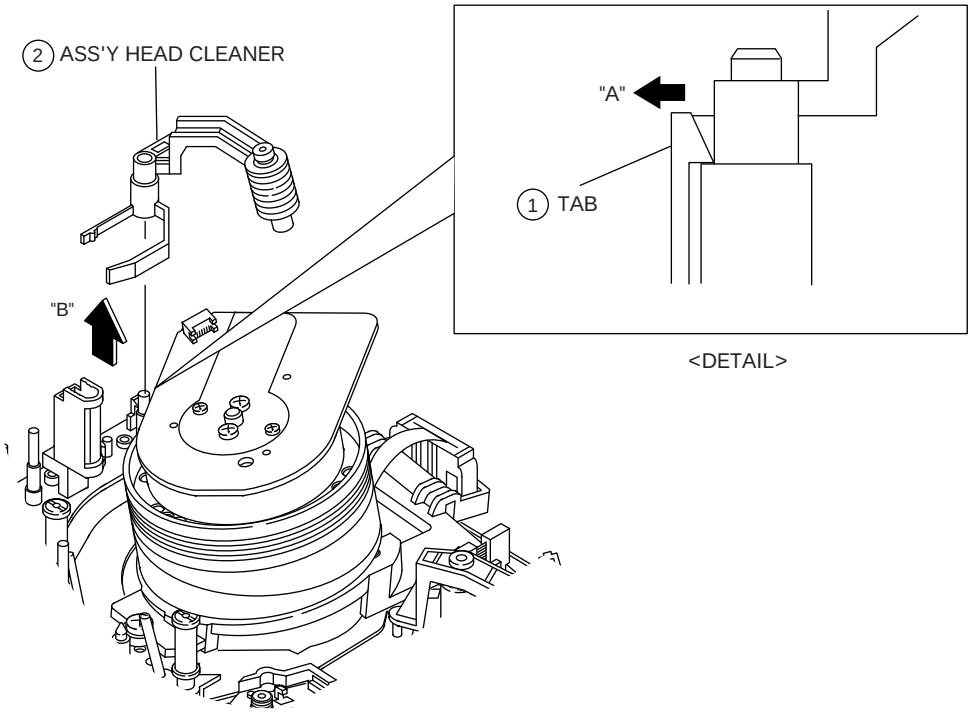


Fig. 1-13 Head Cleaner Ass'y Removal

1-3-4 Cylinder Ass'y Removal from Main Base

1. Remove 3 Screws ① holding the Main Base and the Cylinder Ass'y.
2. Lift the Cylinder Ass'y ② in the direction of arrow.

Note : Do not touch the video heads during removal or installation.

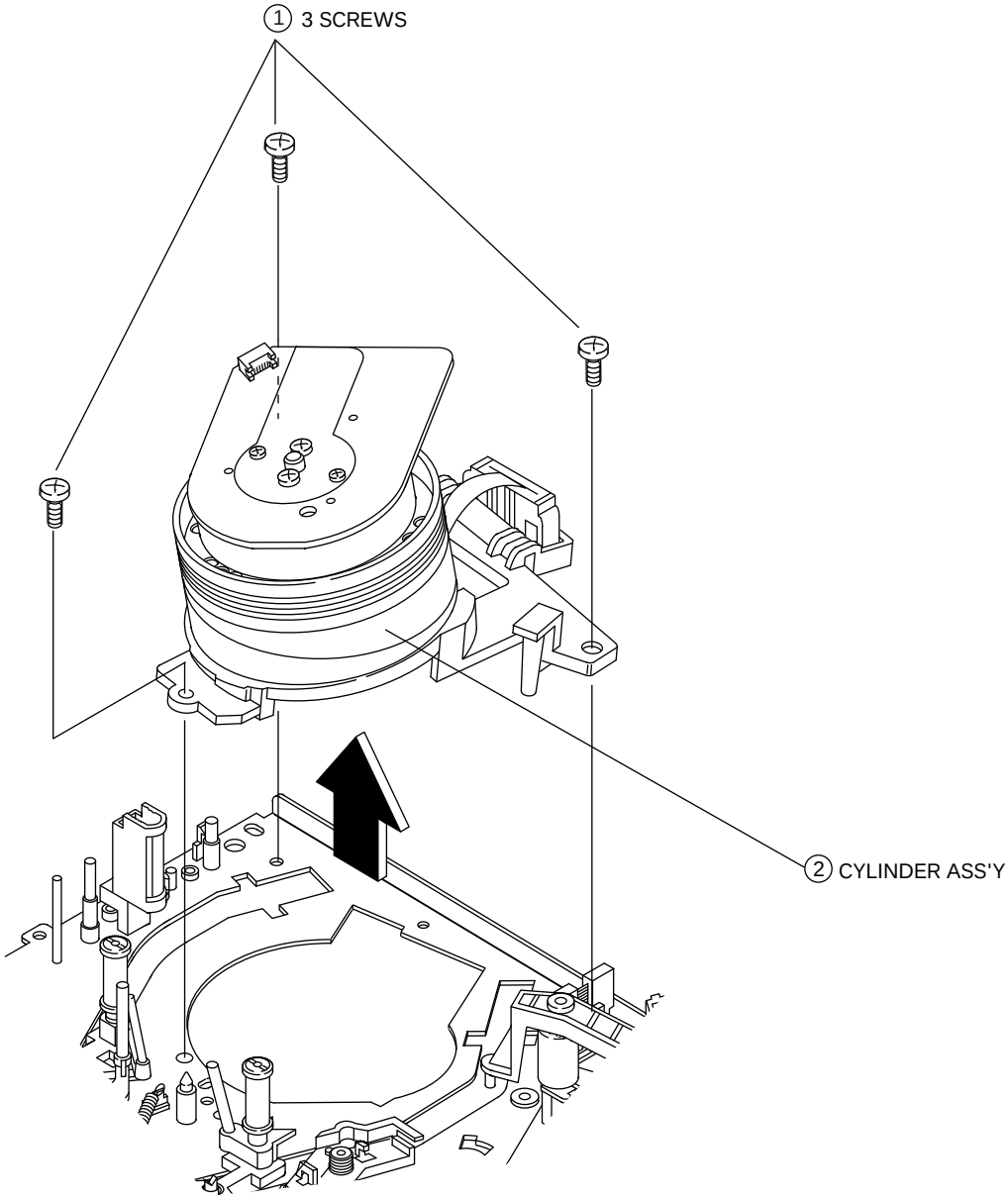


Fig. 1-14 Cylinder Ass'y Removal from Main Base

1-3-5 Holder FPC Removal

1. Release the Holder FPC tab holding the Cylinder Base ② in the direction of arrow. (Refer to detail drawing)
2. Disconnect the Holder FPC ① from the Cylinder Base ②.

Note : When disconnecting the FPC Holder ① from the Cylinder Base ② :
Take care not to disconnect the FPC cable from the FPC Holder (The FPC cable is very short).

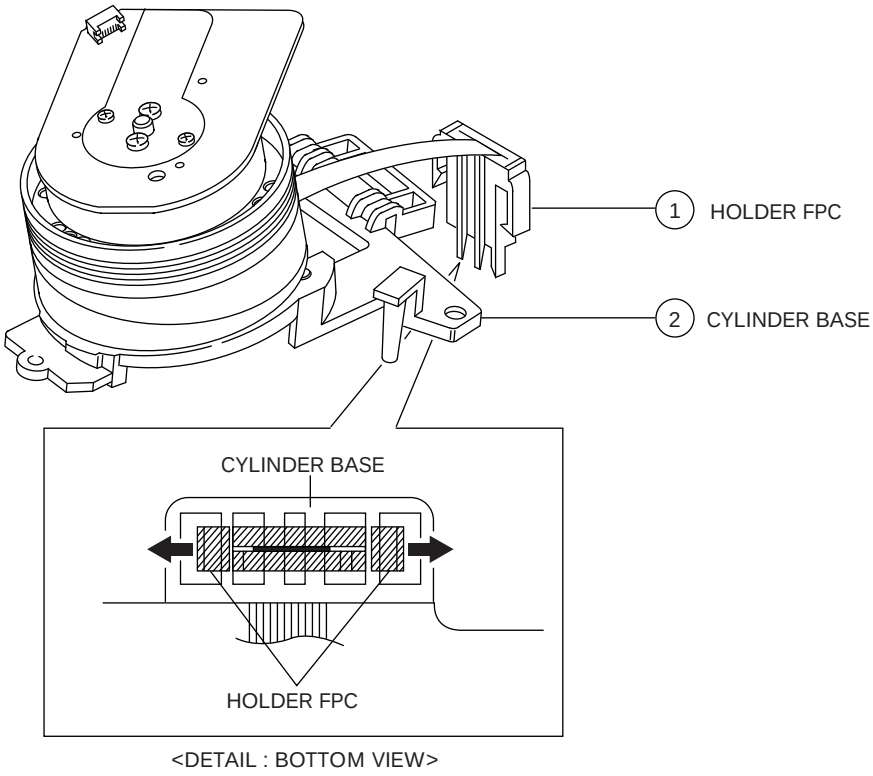


Fig. 1-15 Head Brush and Holder FPC Removal

1-3-6 Cylinder Ass'y Removal from Cylinder Base

1. Remove 3 Screws ① from the Cylinder Base ②.
2. Lift the Cylinder Ass'y ③ from the Cylinder Base ② in the direction of arrow.

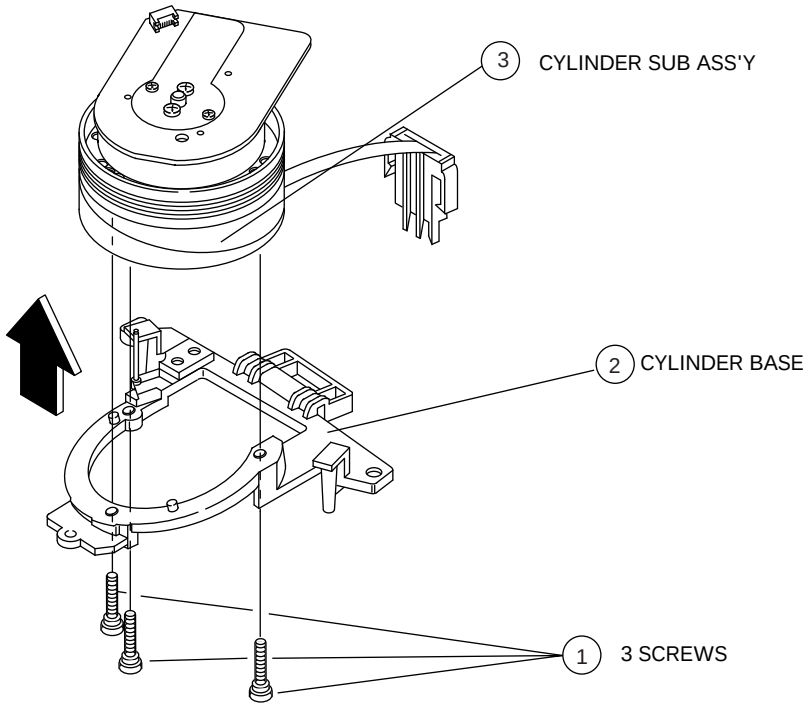


Fig. 1-16 Cylinder Ass'y Removal from Cylinder Base

1-3-7 Motor Stator Removal

1. Remove 2 Screws ①.
2. Remove the Motor Stator ② from the Cylinder Sub Ass'y ⑤.

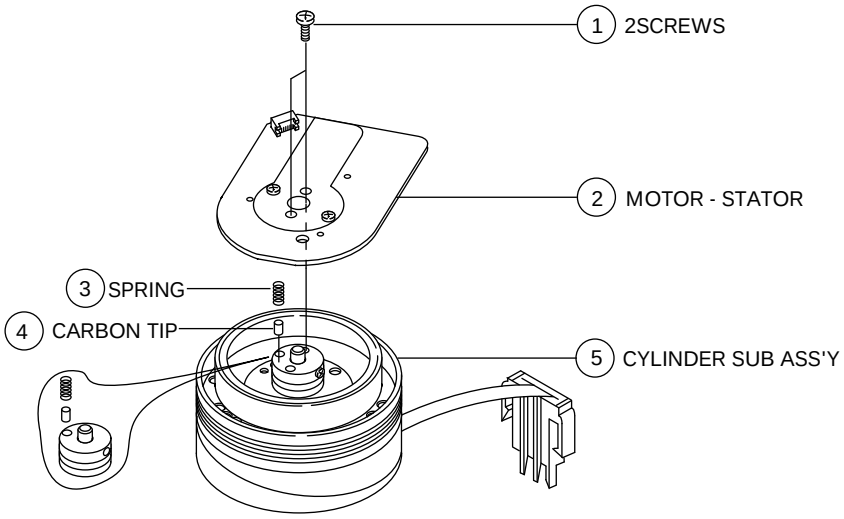


Fig. 1-17 Motor Stator Removal

Note : When disassembling the Motor-Stator, take extreme care not to loose the carbon-tip and spring.

1-3-8 Motor Rotor Removal

1. Remove 2 Screws ①.
2. Lift The Motor Rotor②.

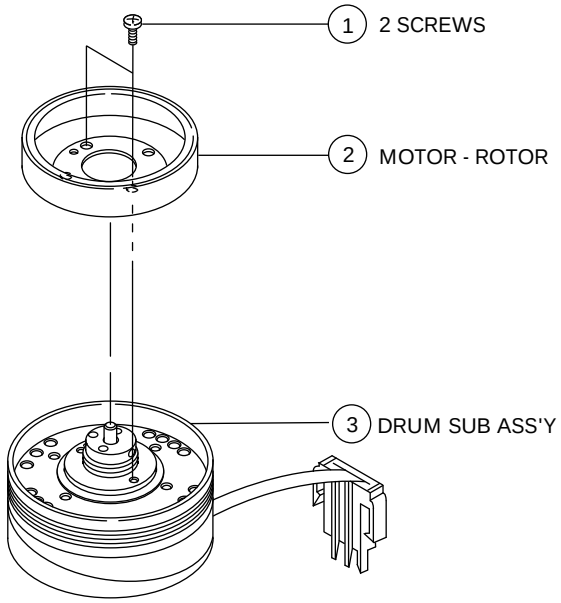


Fig. 1-18 Motor Rotor Removal

1-3-9 Motor Rotor and Cylinder Sub Ass'y

1. Make sure that phase matching holes of the Motor Rotor and the Cylinder Sub Ass'y are aligned correctly as shown in Fig. 1-19 (Refer to phase matching hole).
2. Secure with 2 Screws.

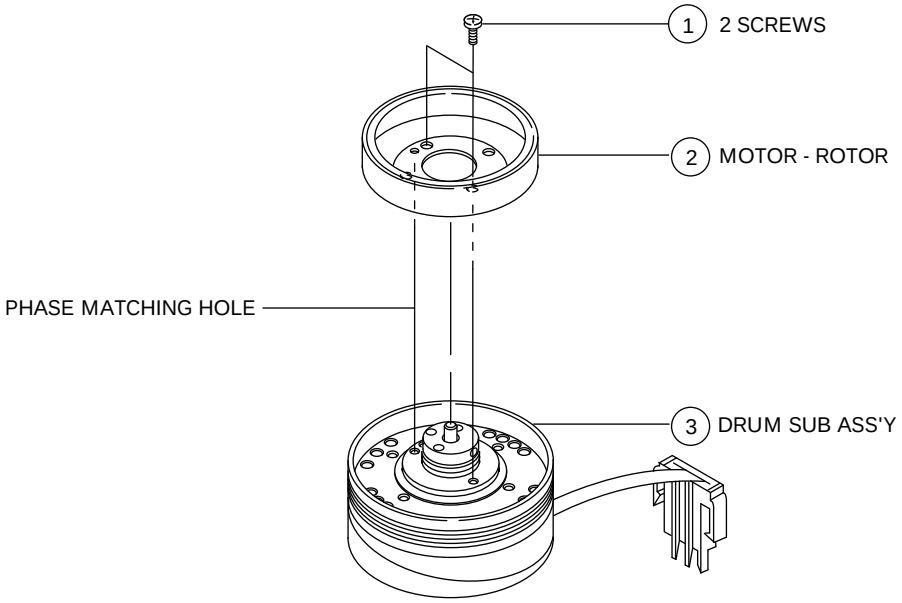


Fig. 1-19 Assembly of Motor Rotor and Cylinder Sub Ass'y

1-3-10 Motor Stator and Cylinder Sub Ass'y

1. Reinstall the Motor Stator ① toward the FPC cable of Cylinder Sub Ass'y ②.
2. Secure 2 Screws. (Refer to Fig. 1-17)

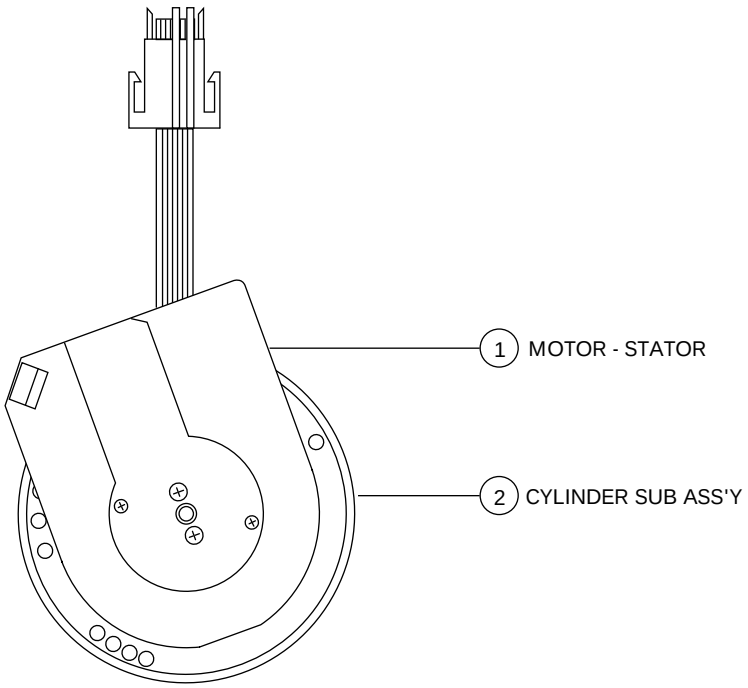


Fig. 1-20 Assembly of Motor Stator and Cylinder Sub Ass'y

1-4 Main Deck Removal and Reassembly

1-4-1 Slide Rack Housing Removal

1. Lift the Slide Rack Housing.

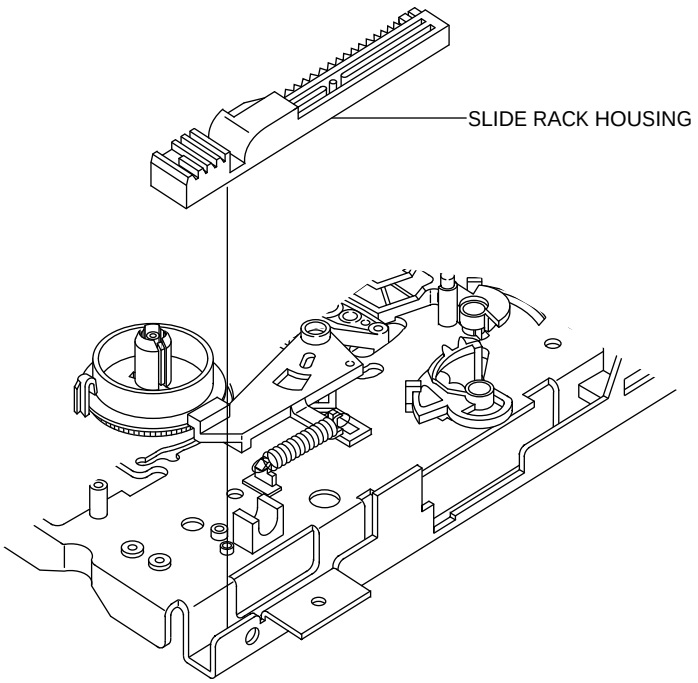


Fig. 1-21 Slide Rack Housing Removal

1-4-2 Assembly of Slide Rack Housing and Gear Master

1. Confirm that the hole of Master Gear ① and the hole "A" of Main Base are aligned correctly. (Eject mode)
2. Align the Slot #1 of Master Gear ① with the Tooth #1 of Rack Housing Slide ②. (Refer to timing point)

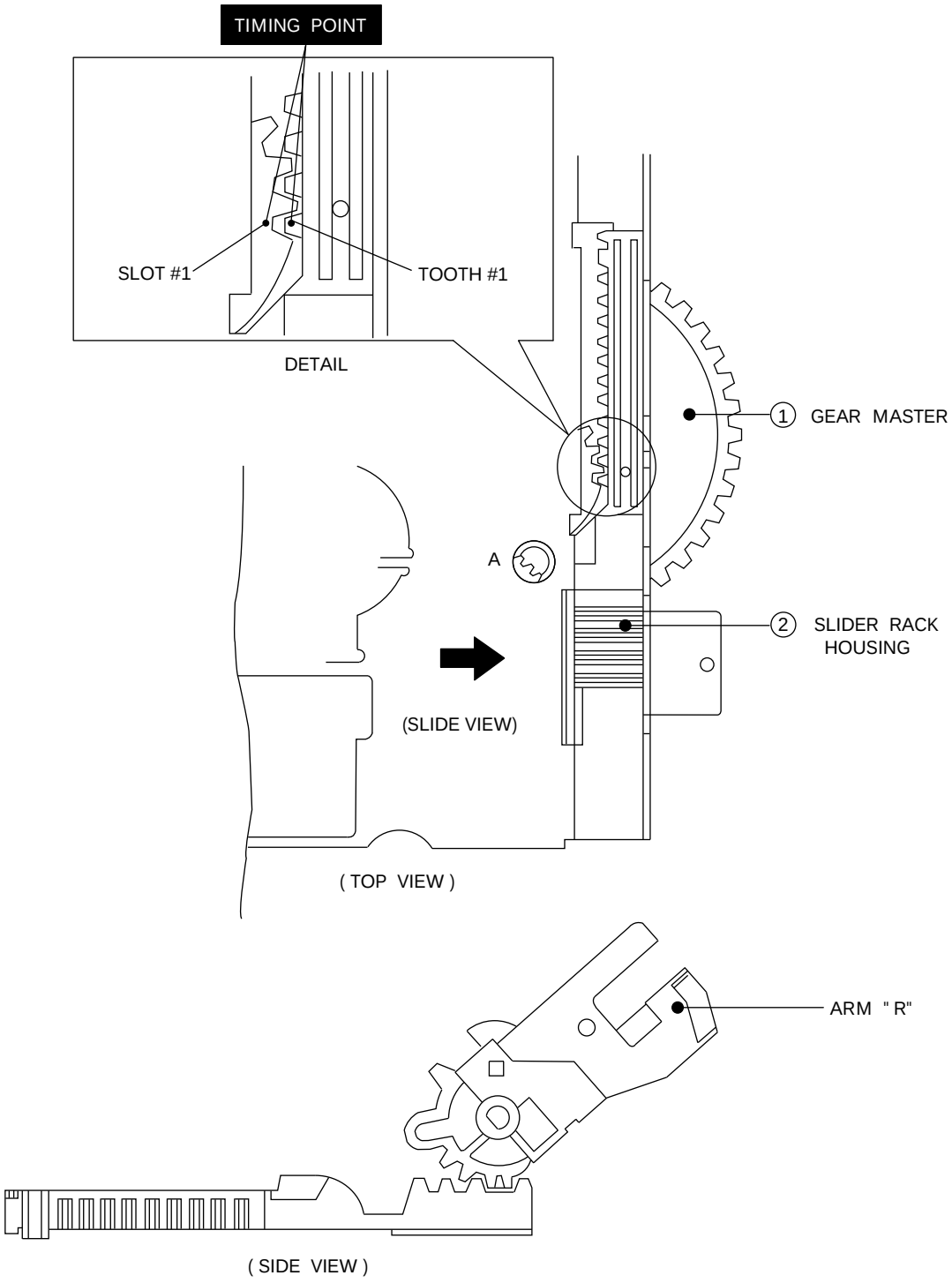
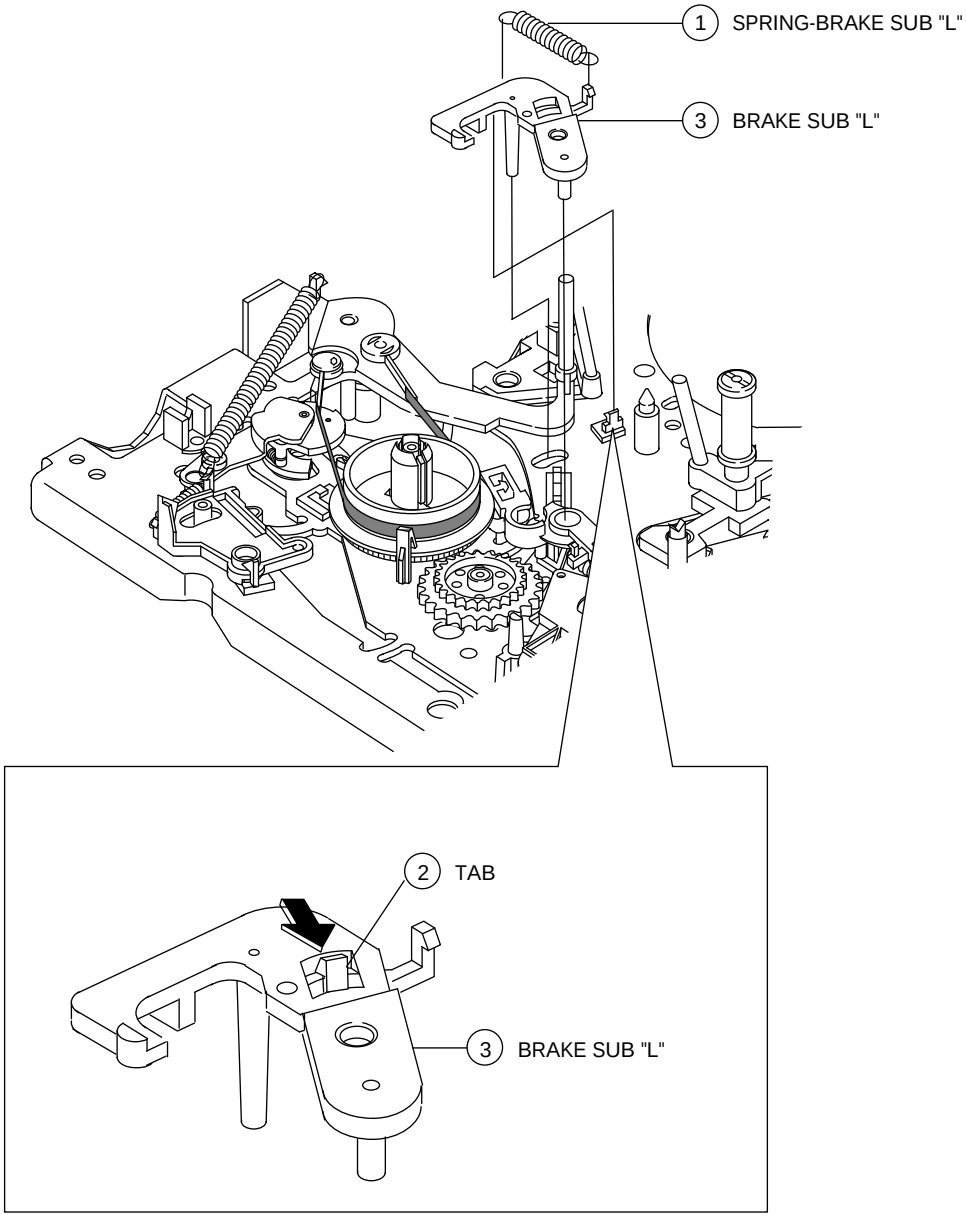


Fig. 1-22 Assembly of Slide Rack Housing and Gear Master

1-4-3 Brake Sub “L” Removal

1. Remove the Sub “L” Brake Spring ①.
2. Release the tab ② in the direction of arrow. (Refer to detail drawing)
3. Lift the Sub “L” Brake ③.



<DETAIL>

Fig. 1-23 Brake Sub “L” Removal

1-4-4 Arm Tension Full Ass'y Removal

1. Remove the Tension Spring ①.
2. Release the tab ② in the direction of arrow. (Refer to detail drawing)
3. Lift the Full Tension Arm Ass'y ③.

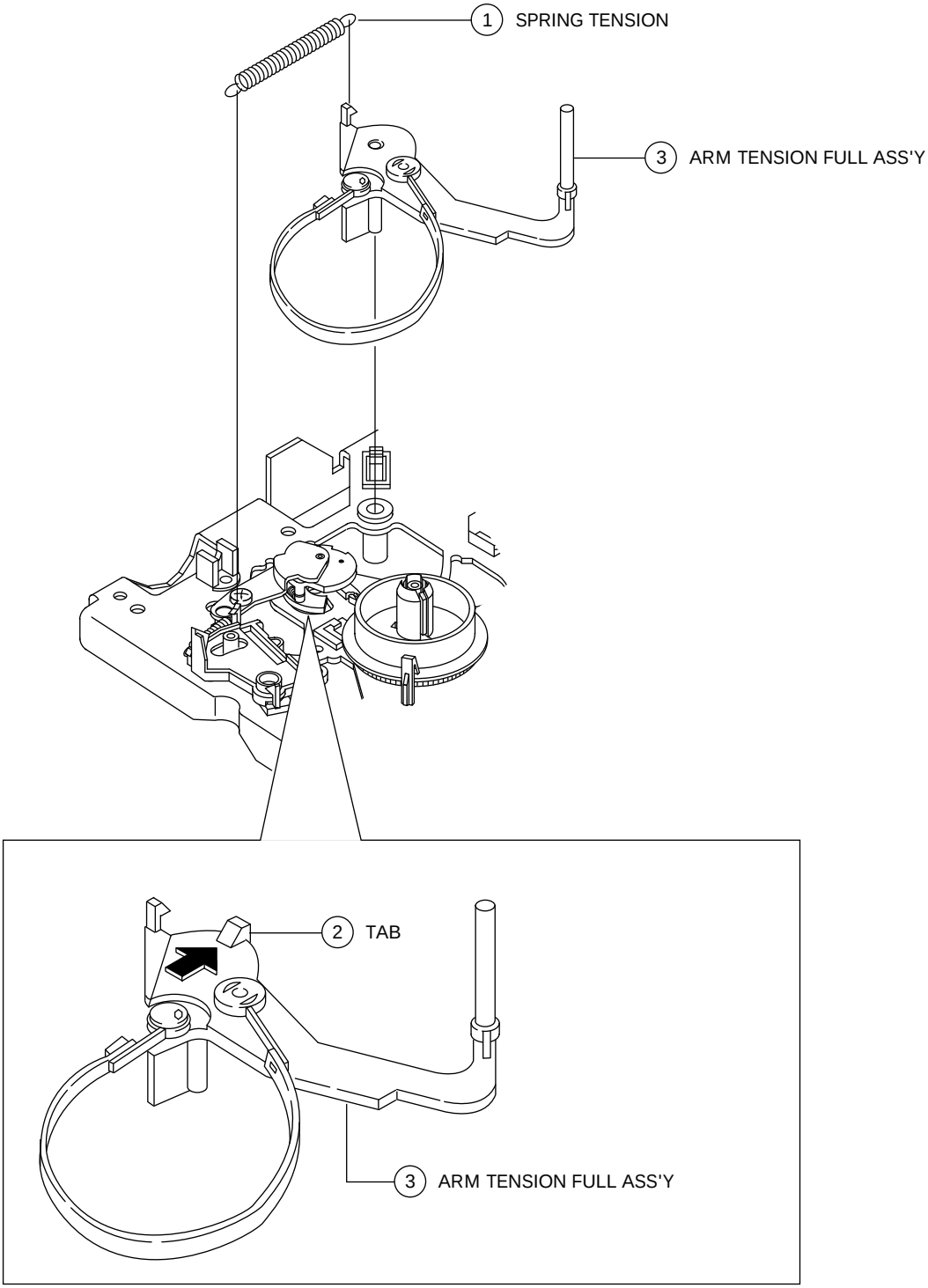


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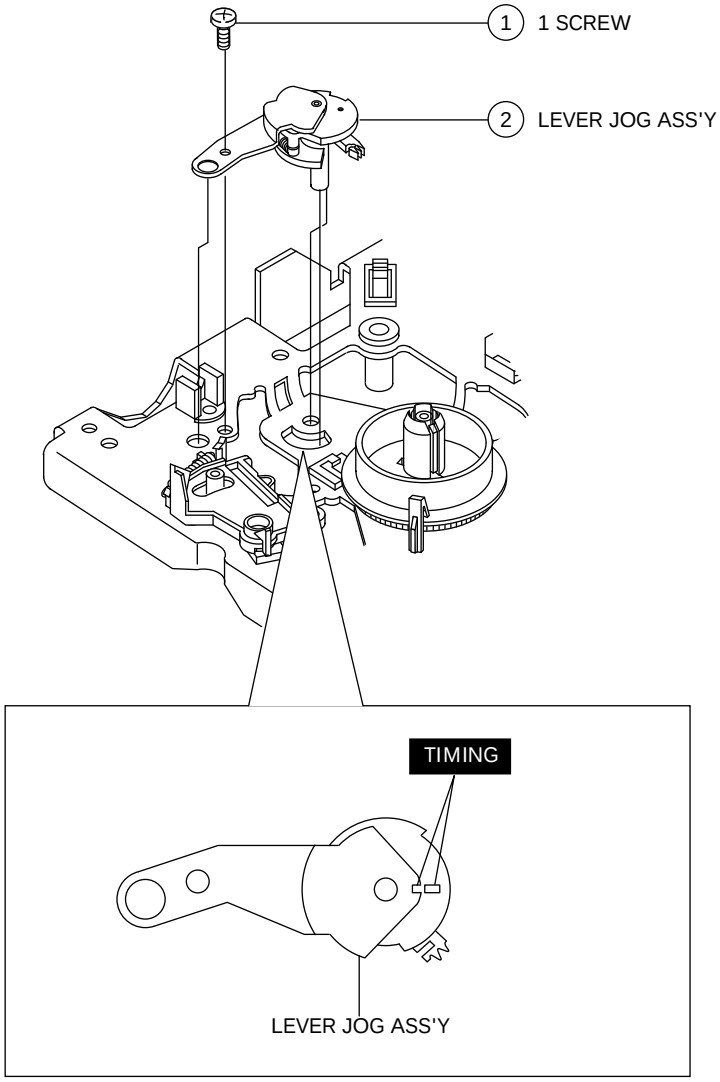
Fig. 1-24 Arm Tension Full Ass'y Removal

1-4-5 Lever JOG Ass'y Removal (Only for deck : DX8-A/DX8-AC)

1. Remove the 1 Screw ①.
2. Lift the JOG Lever Ass'y ②.



<TOP VIEW>

Fig. 1-25 Lever JOG Ass'y Removal

1-4-6 Reel Disk “L” and Gear Relay “S” Ass’y Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the Reel Disk “L” ②.
3. Remove the Plain Washer ③.
4. Remove the Slit Washer ④.
5. Lift the Relay “S” Gear Ass’y ⑤.

Note : When reinstalling, be sure to install the Reel Disk “L” ② after installing the Plain Washer ③.

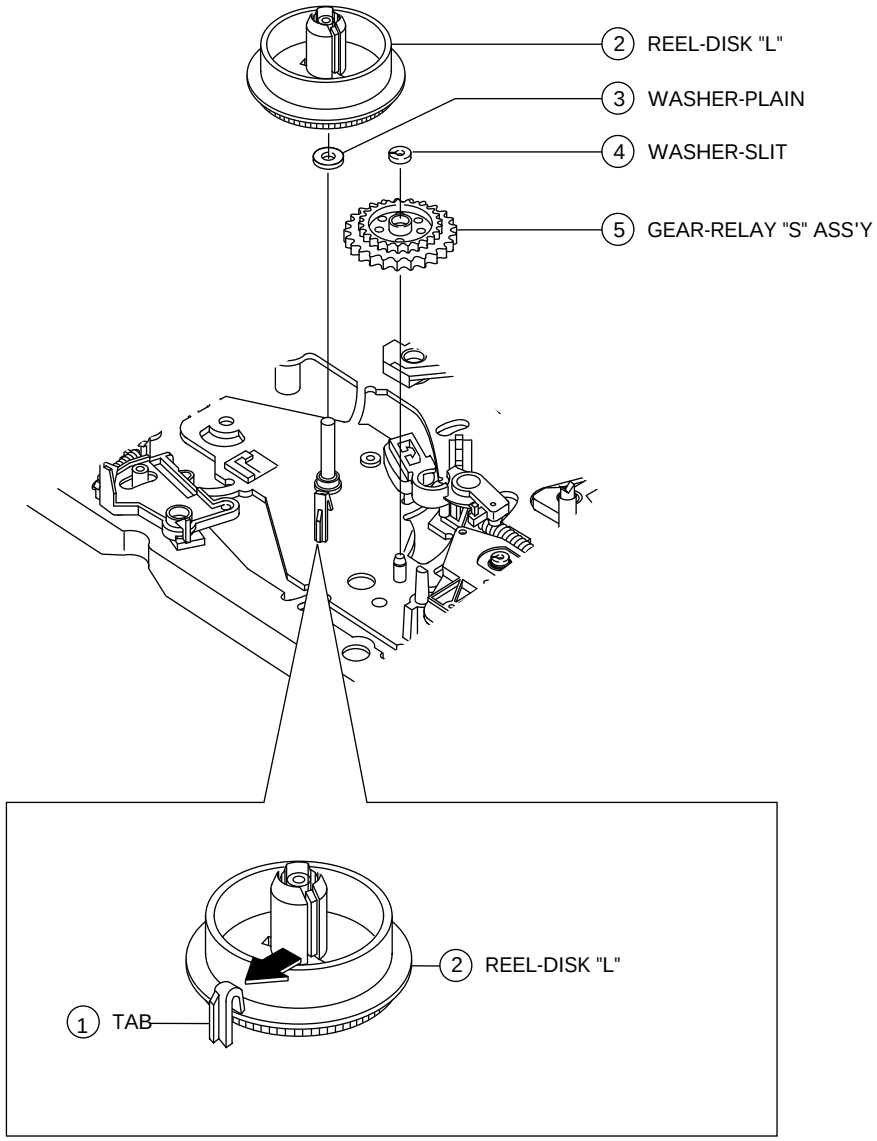


Fig. 1-26 Reel Disk “L” and Gear Relay “S” Ass’y Removal

1-4-7 Brake Sub “R” Ass’y Removal

1. Remove the Sub “R” Brake Spring ①.
2. Release the tab ② in the direction of arrow. (Refer to detail drawing)
3. Lift the Brake Sub “R” Ass’y ③.

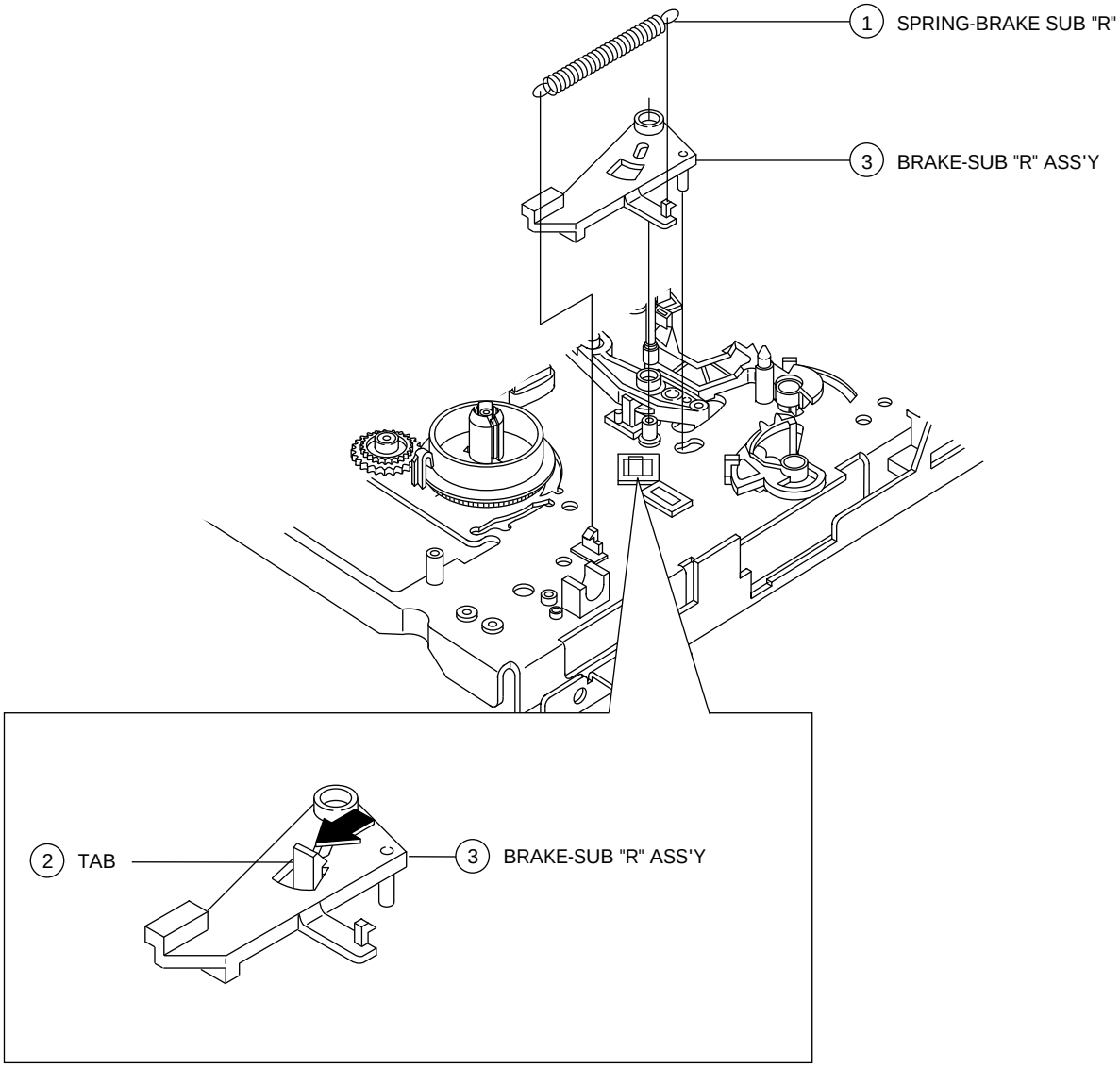


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Fig. 1-27 Brake Sub “R” Ass’y Removal

1-4-8 Reel Disk “R” Ass’y and Gear Relay “T” Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the Reel Disk “R” Ass’y ②.
3. Remove the Plain Washer ③.
4. Remove the Slit Washer ④.
5. Lift the Relay “T” Gear Ass’y ⑤.

Note : When reinstalling, be sure to install the Reel Disk “R” Ass’y ② after installing the Plain Washer ③.

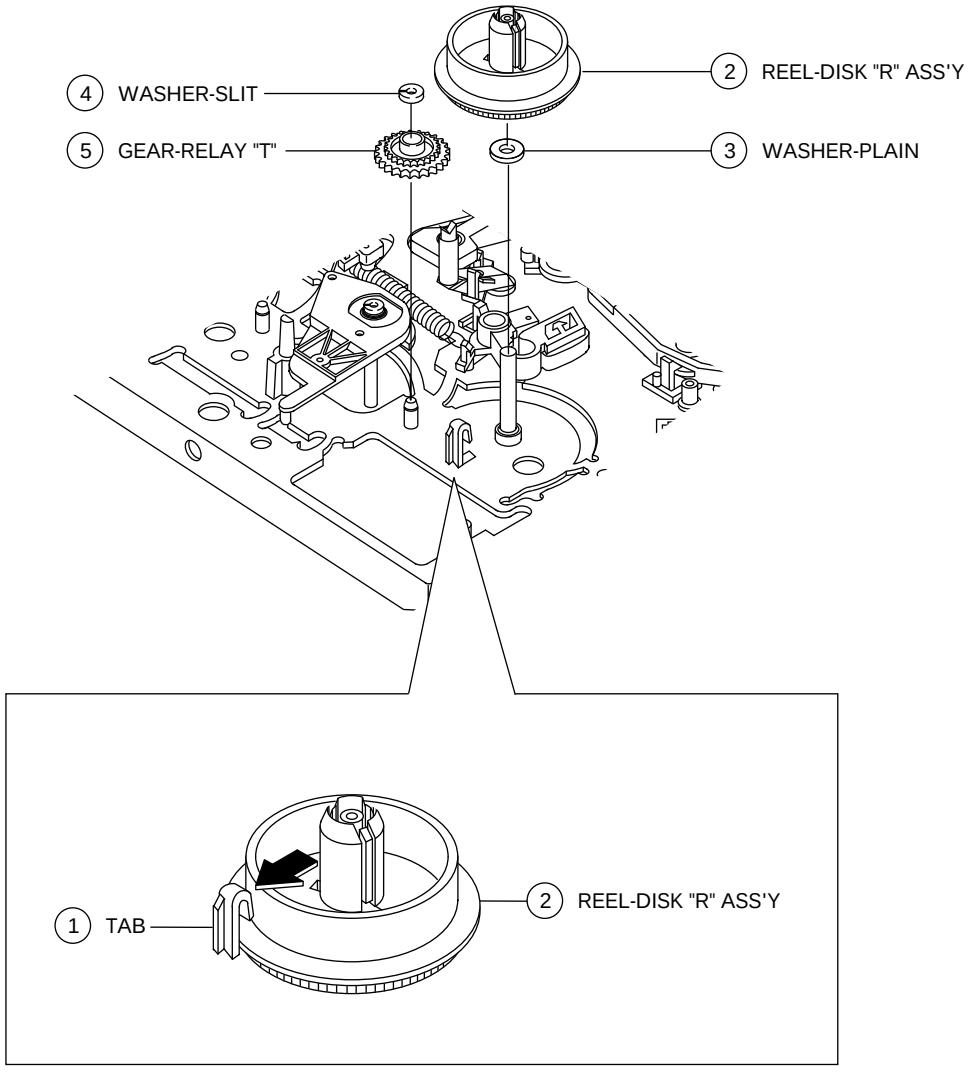

Fig. 1-28 Reel Disk “R” Ass’y and Gear Relay “T” Removal

1-4-9 Brake Main “L”, “R” Ass’y Removal

1. Release the Main Brake Spring ①.
2. Release the tab ② in the direction of arrow “A”. (Refer to detail drawing A)
3. Lift the Brake Main “L” ③.
4. Release the tab ④ in the direction of arrow “B”. (Refer to detail drawing B)
5. Lift the Main “R” Brake ⑤.

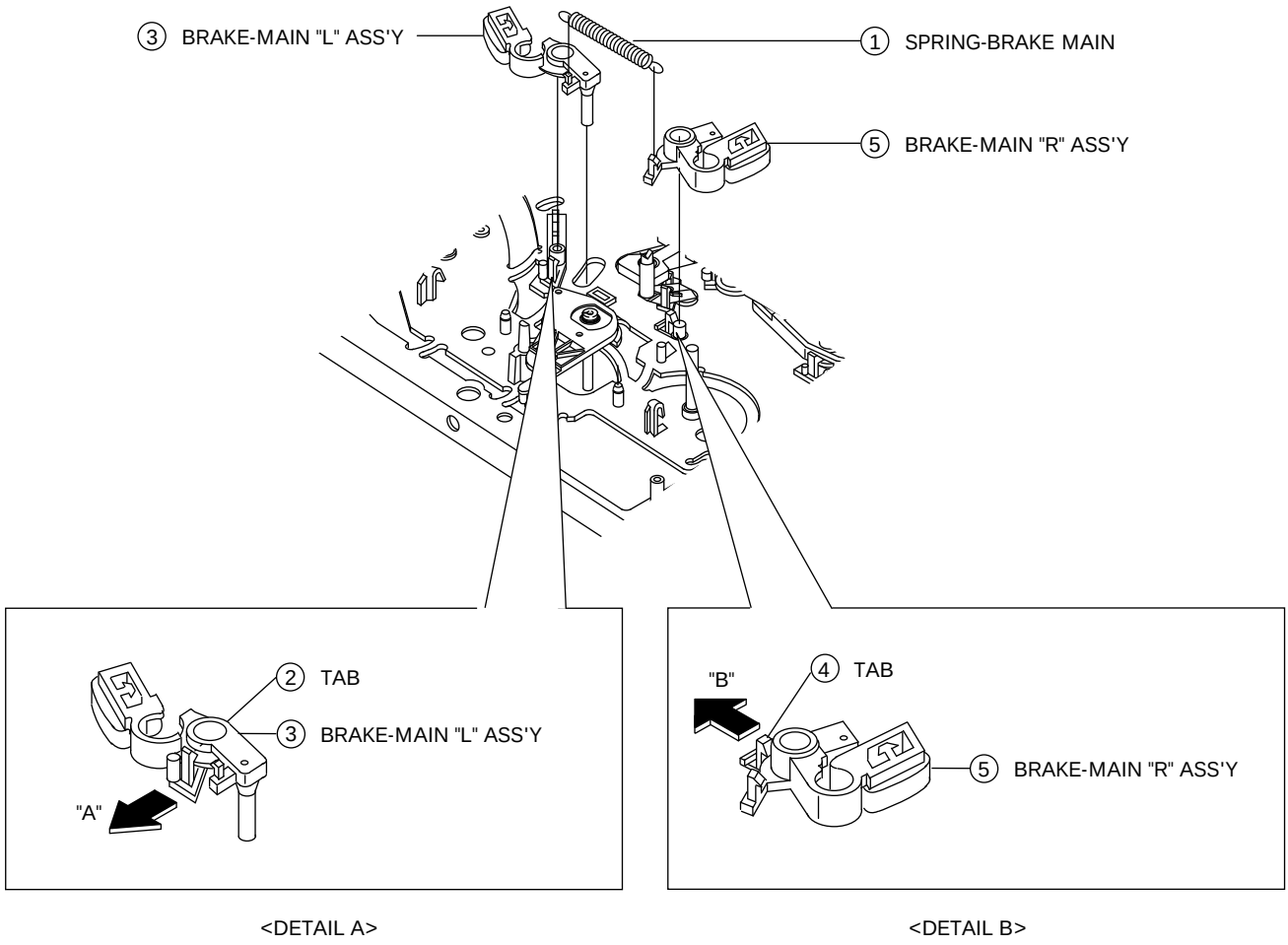

Fig. 1-29 Brake Main “L”, “R” Ass’y Removal

1-4-10 Idler Ass'y Removal

1. Remove the Slit Washer ①.
2. Lift the Idler Ass'y ②.

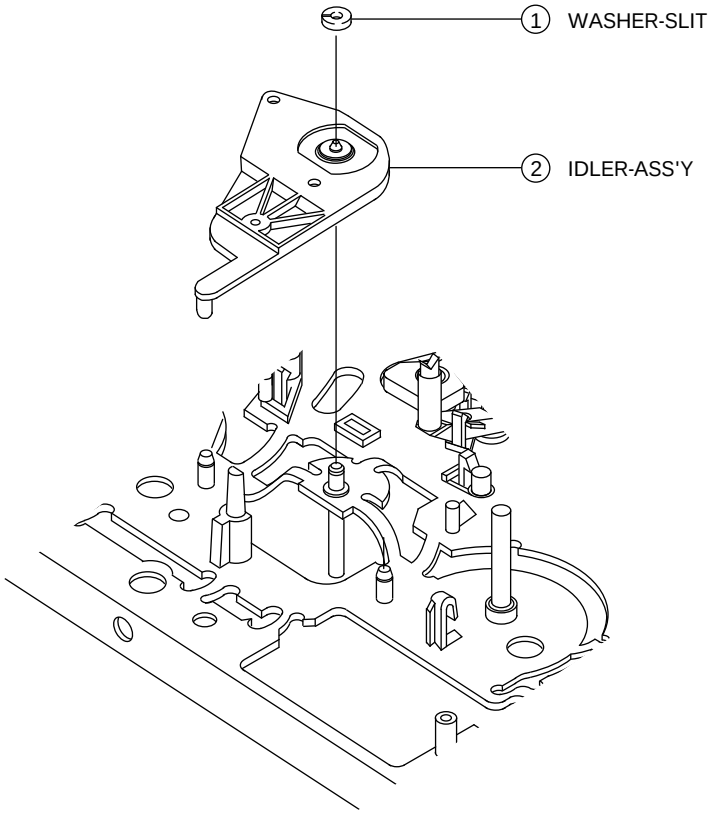

Fig. 1-30 Idler Ass'y Removal

1-4-11 Unit Pinch Roller Ass'y Removal

1. Remove the Slit Washer ①.
2. Lift the Pinch Roller Unit ②.
3. Lift the Arm Pinch Spring ③.

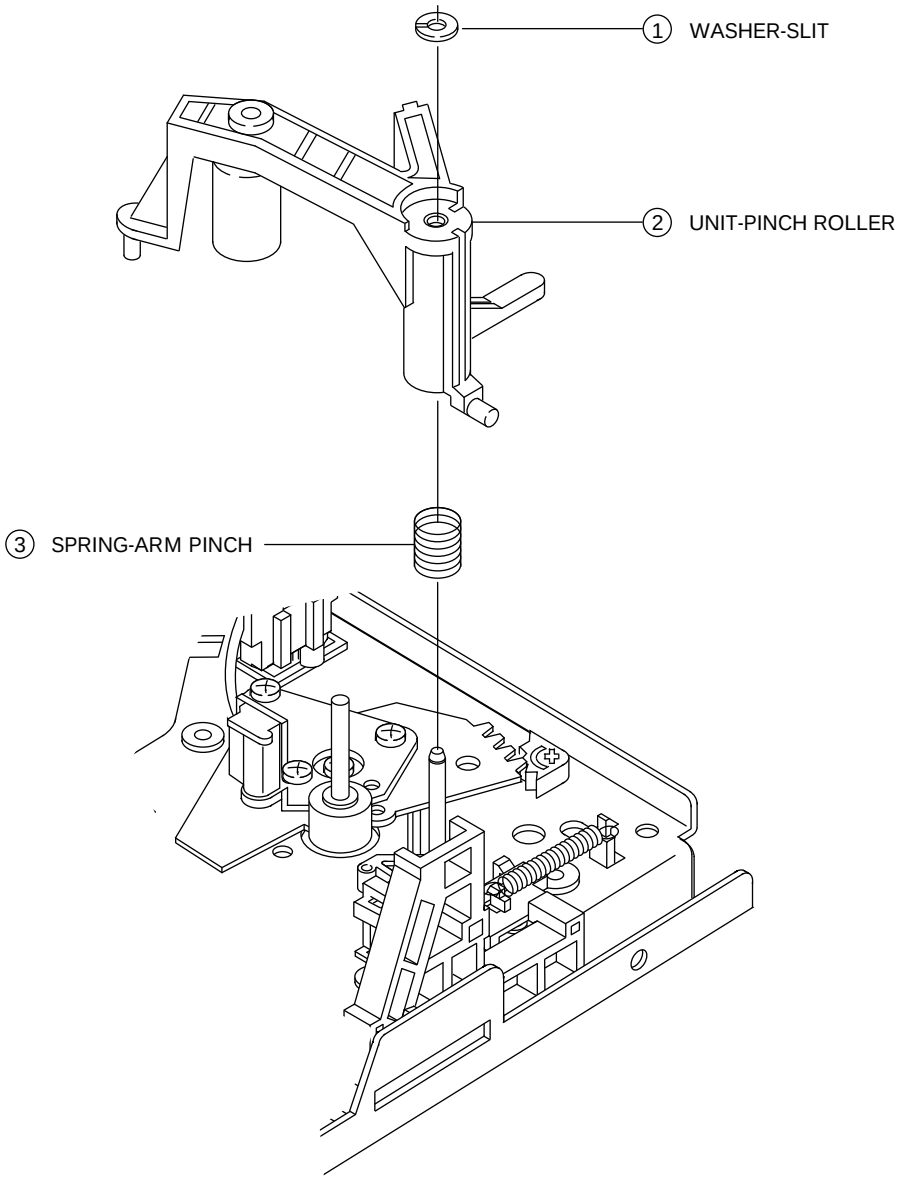

Fig. 1-31 Unit Pinch Roller Ass'y Removal

1-4-12 Assembly of Unit Pinch Roller

1. Install the Pinch Roller Unit as shown in Fig. 1-32. (Refer to A, B)

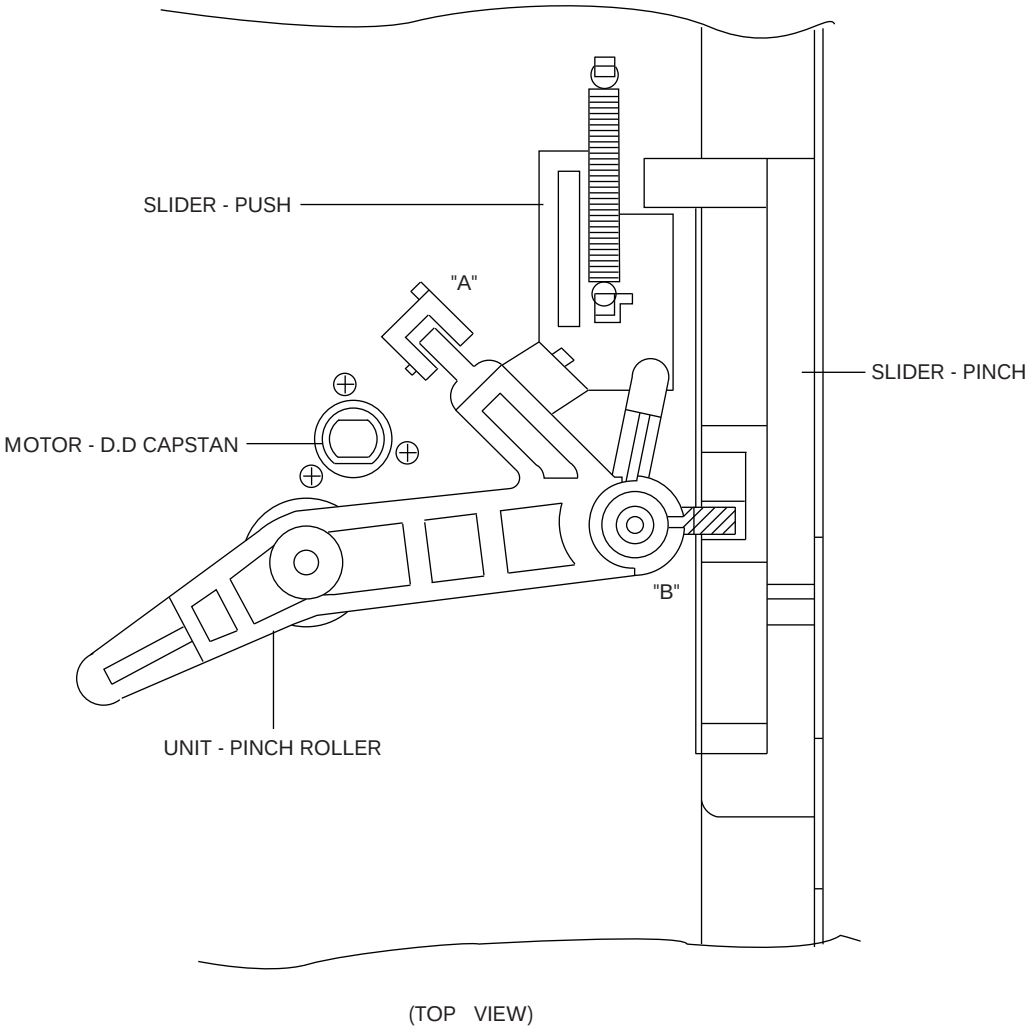

Fig. 1-32 Assembly of Unit Pinch Roller

1-4-13 Exploded View of Lever Pinch Comp Ass'y, Lever Pinch Cam, Arm Review Ass'y and Lever Review Ass'y

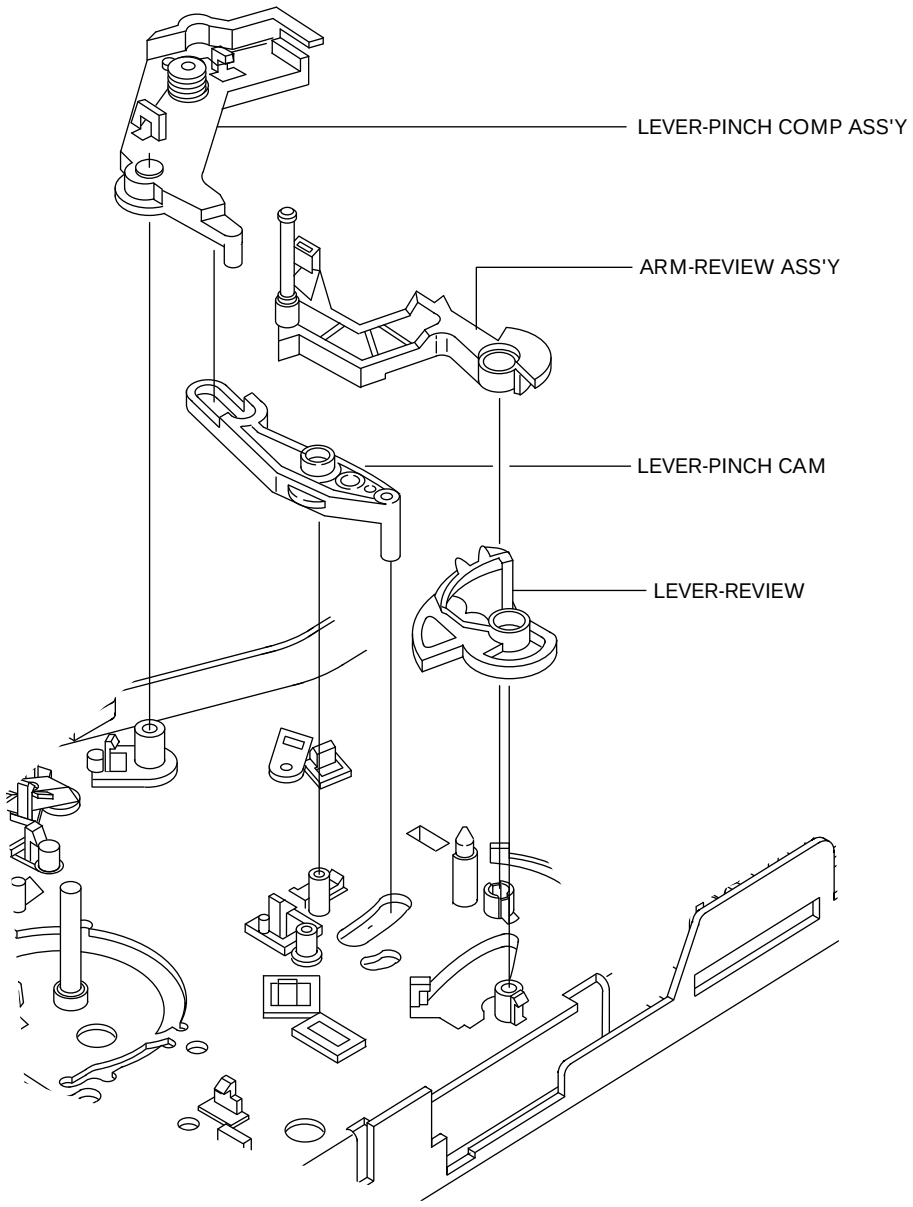

Fig. 1-33 Exploded View of Lever Pinch Comp Ass'y, Lever Pinch Cam, Arm Review Ass'y and Lever Review Ass'y

1-4-14 Lever Pinch Comp Ass'y Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the Pinch Comp Lever Ass'y ②.

Note : Don't touch the Pinch Comp Lever Ass'y ① to Audio Head Base during removal.

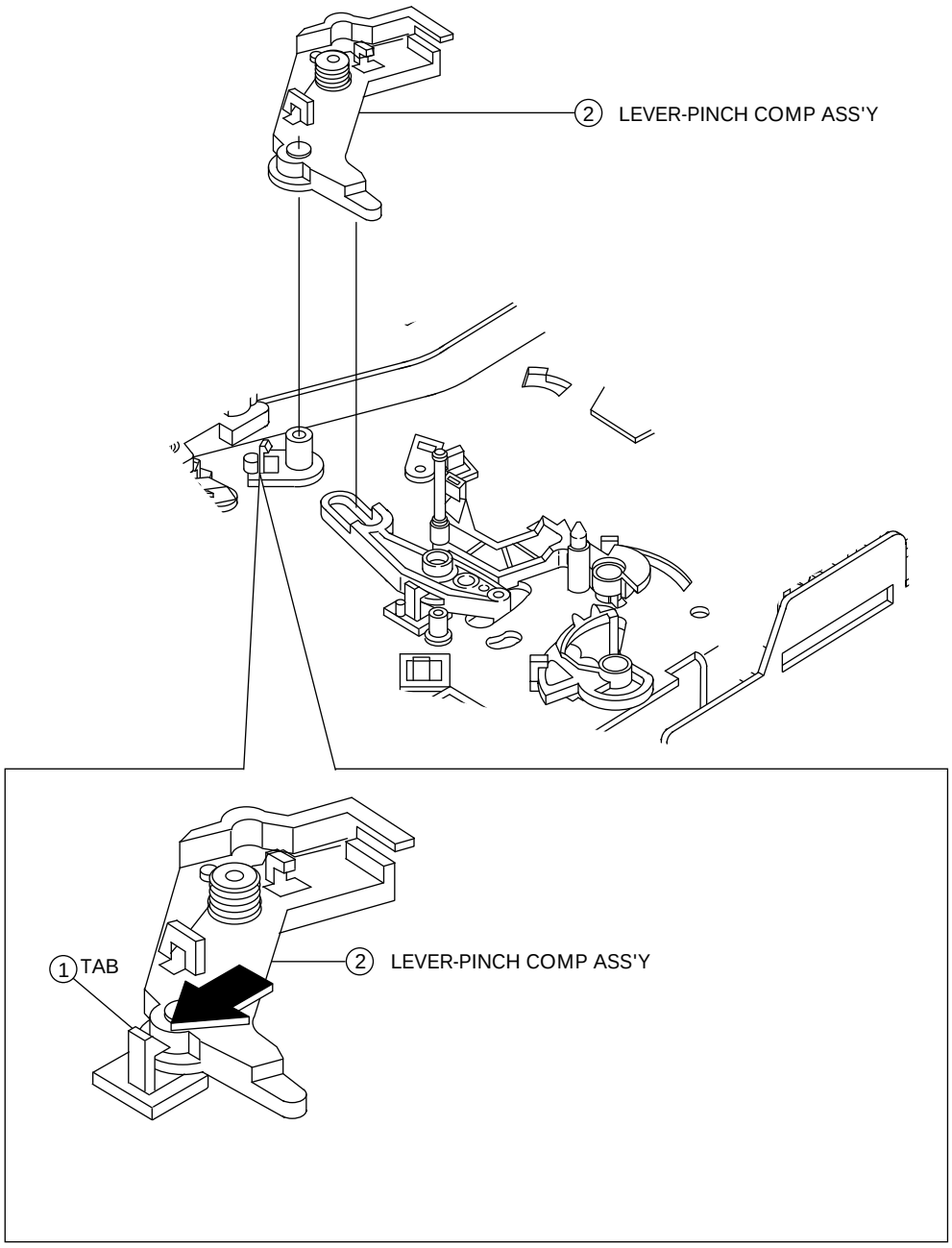

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Fig. 1-34 Lever Pinch Comp Ass'y Removal

1-4-15 Lever Pinch Cam Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the Pinch Cam Lever ②.

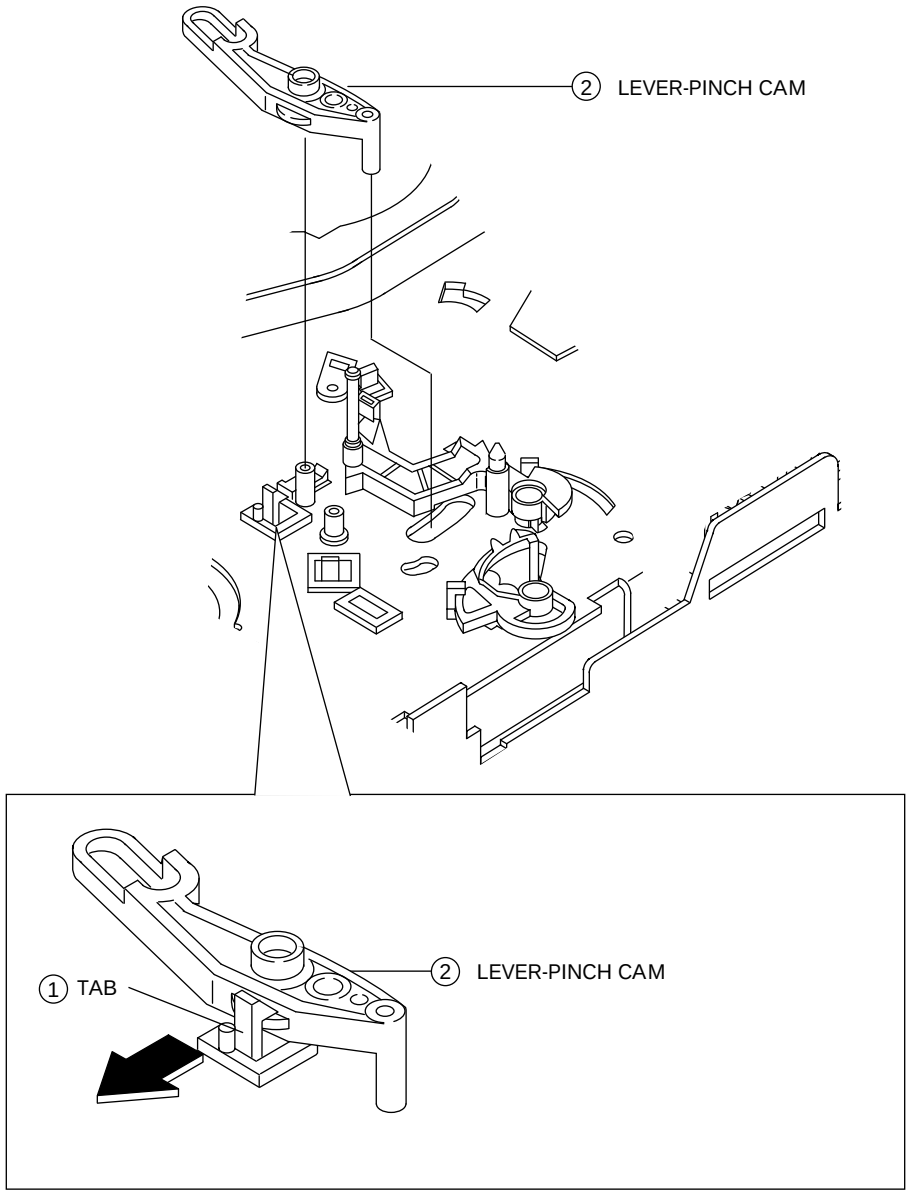

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Fig. 1-35 Lever Pinch Cam Removal

1-4-16 Arm Review Ass'y Removal

1. Push the Stopper tab ① in the direction of arrow.
2. Pull the Review Arm Ass'y ② in the direction of arrow "A" and then confirm "B". (Refer to detail drawing "A")
3. Release the tab ③ in the direction of arrow and then lift the Review Arm Ass'y ②.

Note : Take extreme care not to damage when removing the Review Arm Ass'y ②. (B part of detail drawing A)

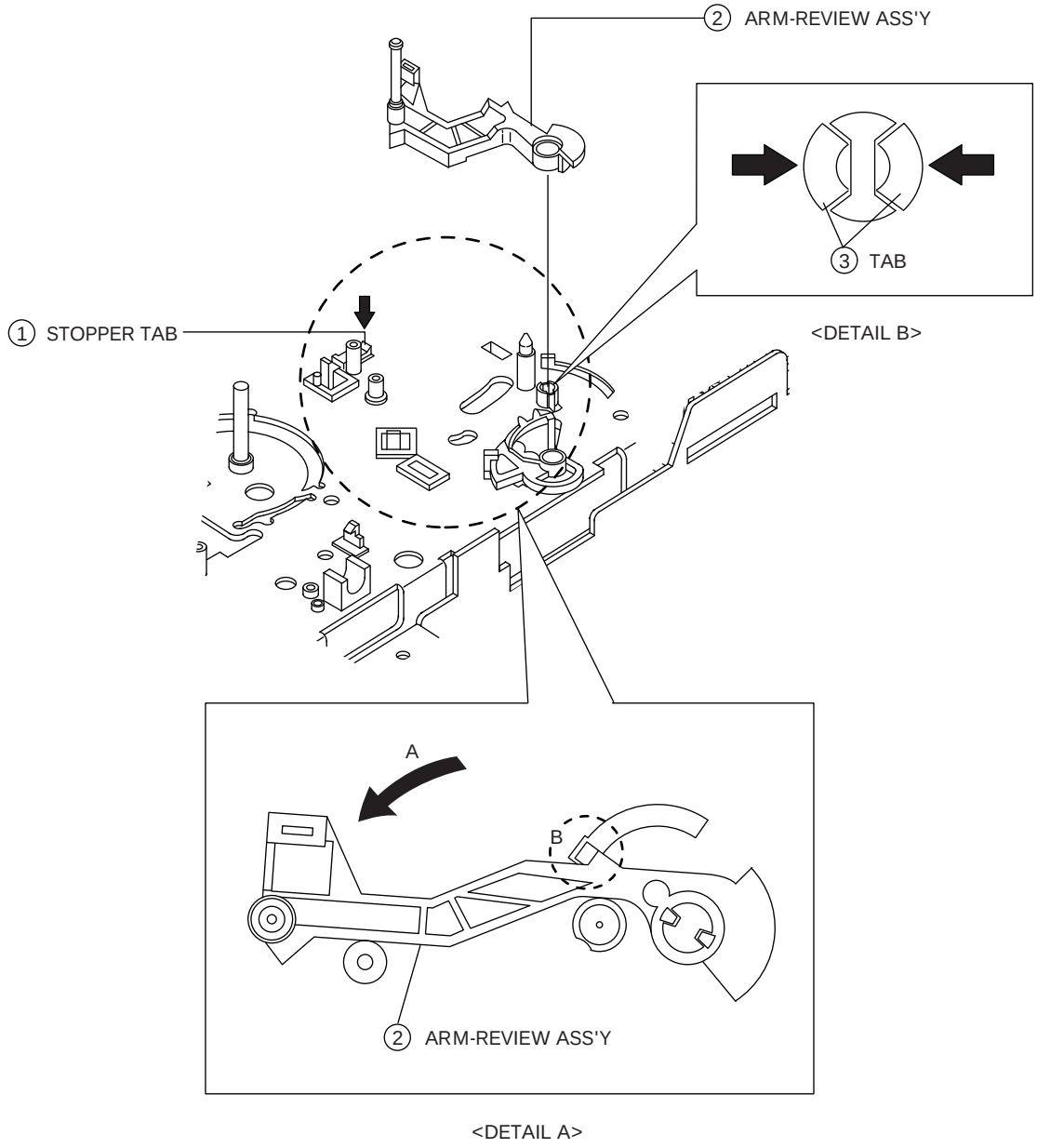


Fig. 1-36 Arm Review Ass'y Removal

1-4-17 Lever Review Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the Review Lever ②.

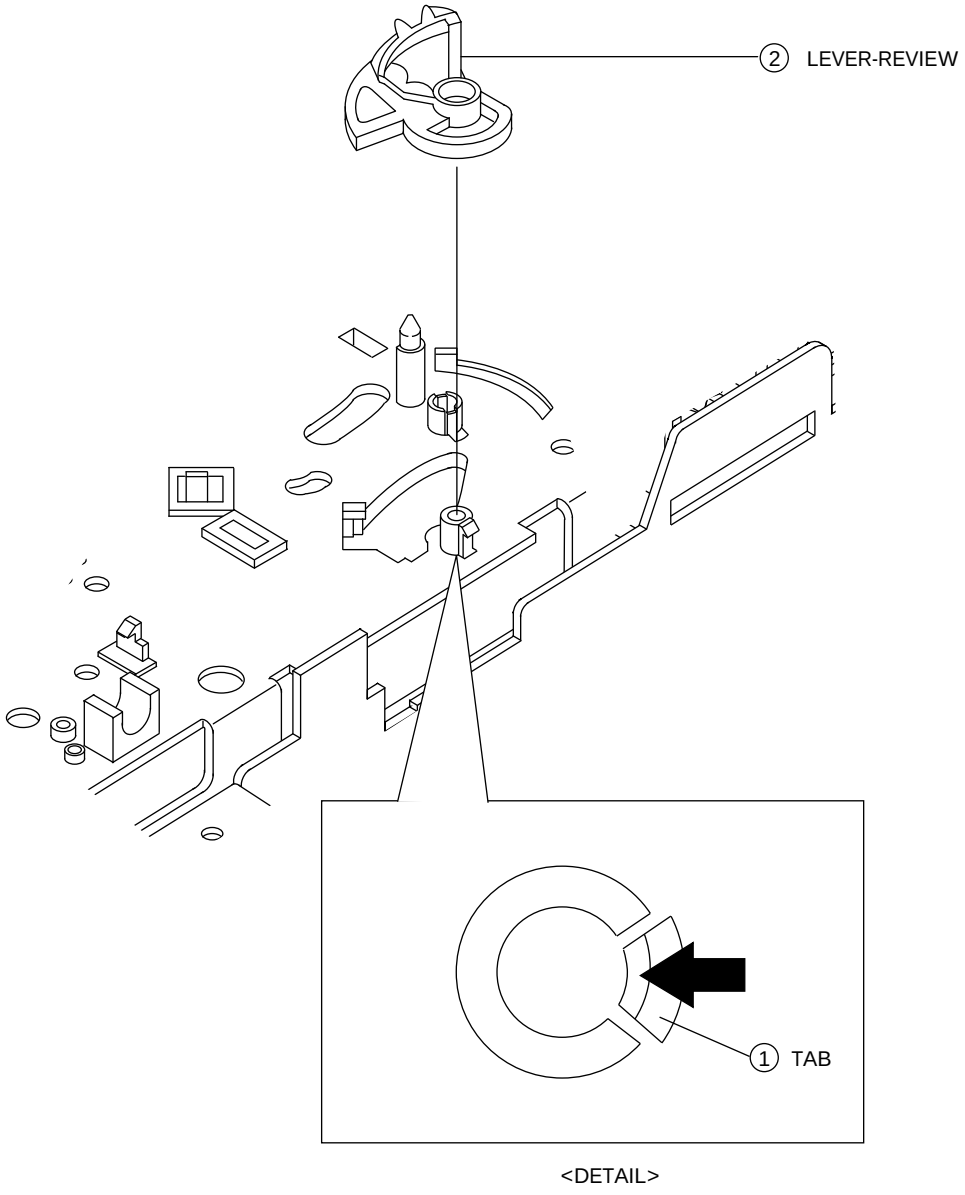


Fig. 1-37 Lever Review Removal

1-4-18 Belt Capstan Removal

1. Remove the Capstan Belt ①.

Note : Take extreme care not to touch the grease when removing or reinstalling.

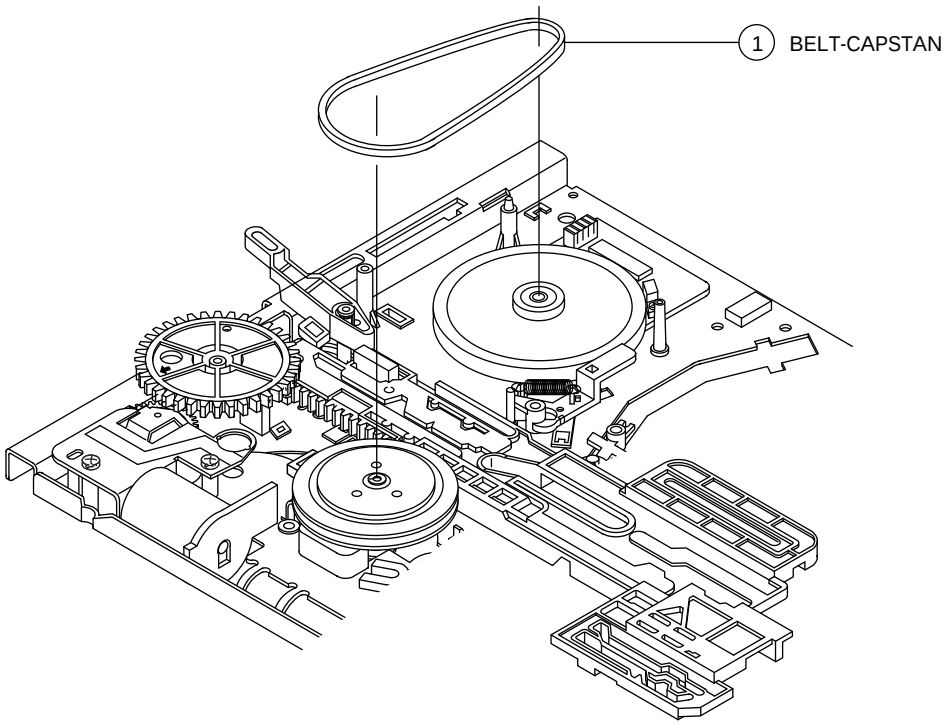


Fig. 1-38 Belt Capstan Removal

1-4-19 Brake Capstan Ass'y Removal

1. Remove the Brake Capstan Spring ①.
2. Release the tab ② in the direction of arrow. (Refer to detail drawing)
3. Lift the Capstan Brake Ass'y ③.

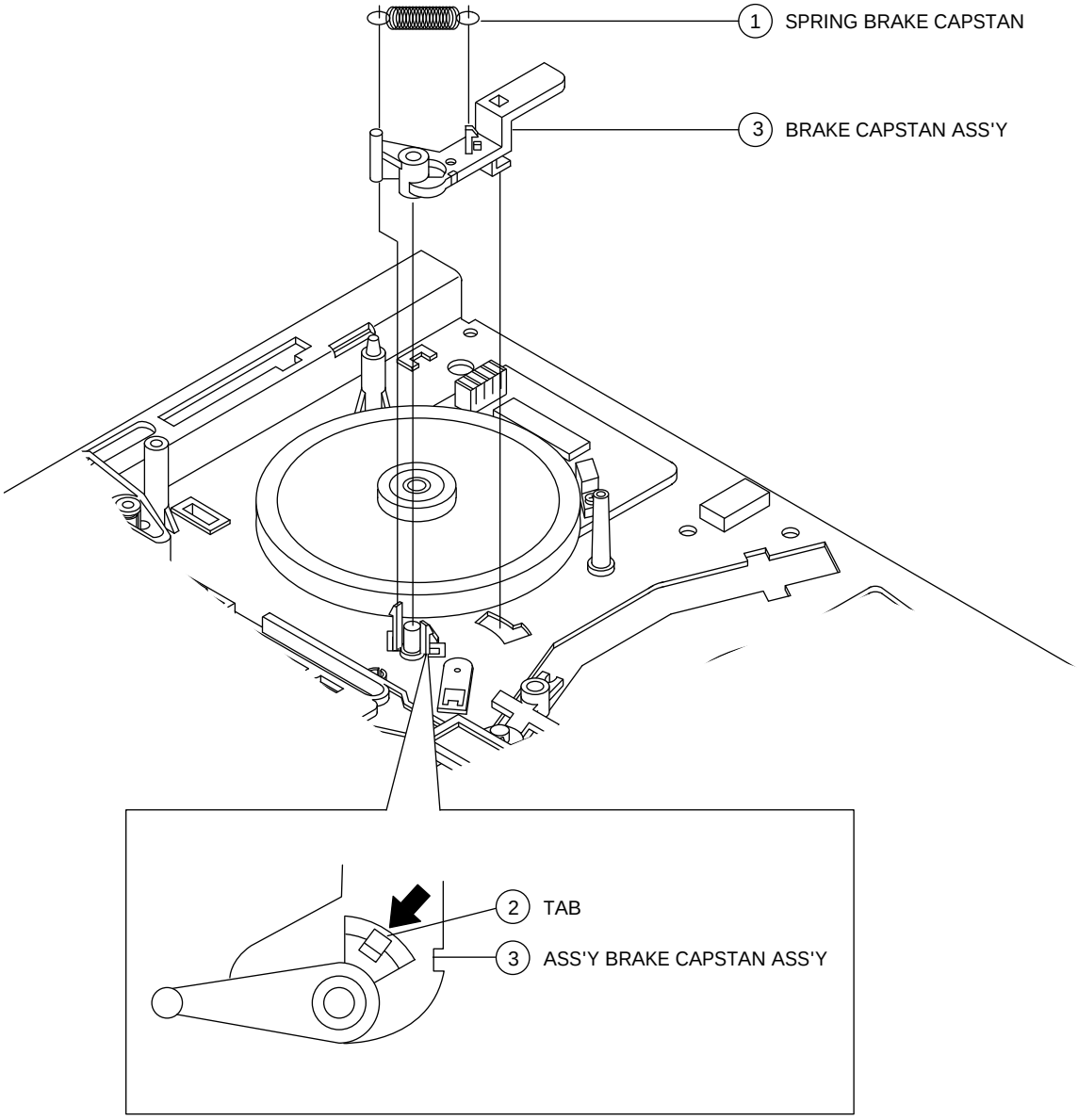


Fig. 1-39 Brake Capstan Ass'y Removal

1-4-20 Motor D.D Capstan Removal

1. Remove 3 Screws ①. (Top view)
2. Lift the Capstan D.D Motor ② in the direction of arrow. (Bottom view)

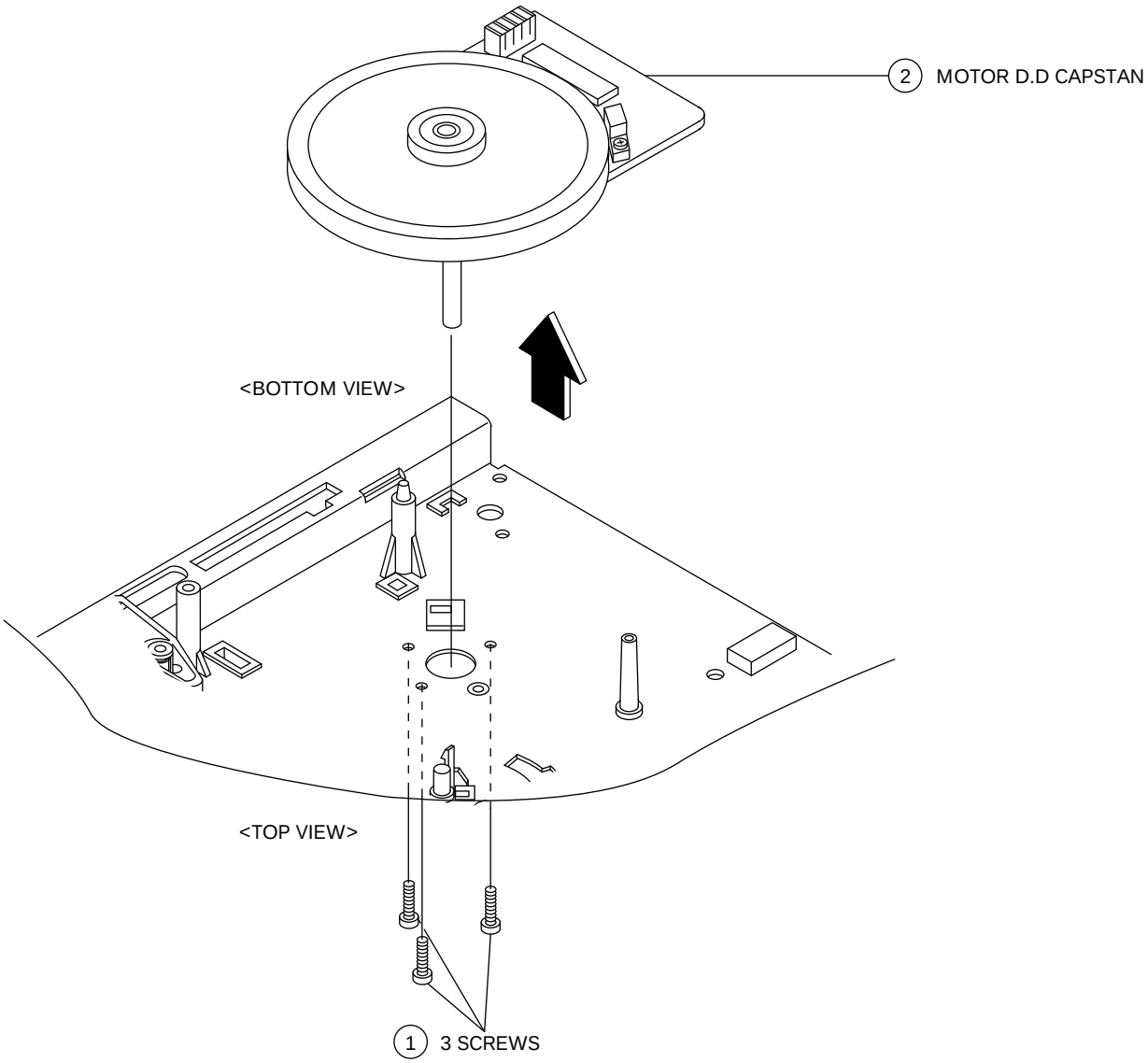


Fig. 1-40 Motor D.D Capstan Removal

1-4-21 Clutch Ass'y Removal

1. Remove the Slit Washer ①.
2. Lift the Clutch Ass'y ②.
3. Remove the Plain Washer ③.

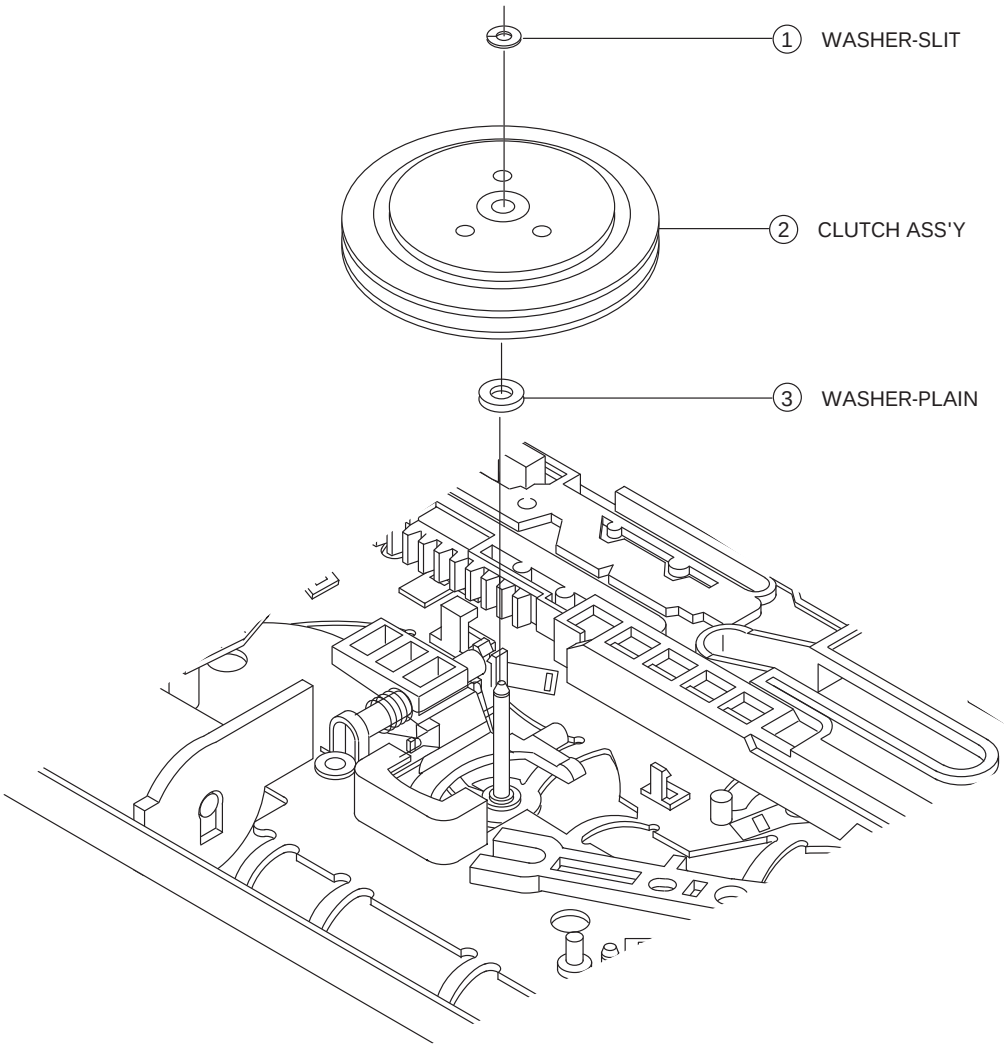


Fig. 1-41 Clutch Ass'y Removal

1-4-22 Gear Master Removal

1. Remove the Slit Washer ①.
2. Lift the Master Gear ②.

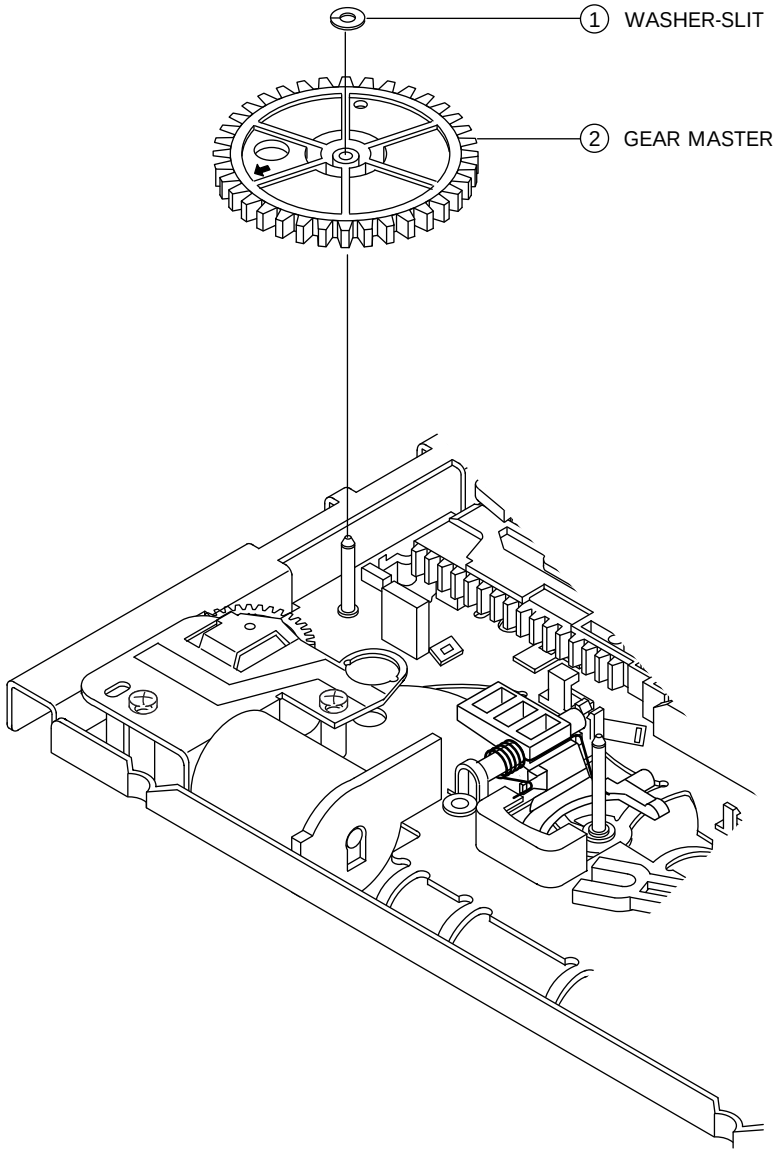


Fig. 1-42 Gear Master Removal

1-4-23 Assembly of Gear Master

1. When reinstalling, be sure to align the arrow of the Master Gear ① with home Gear of the Worm-Wheel Gear ②. (Refer to timing point)

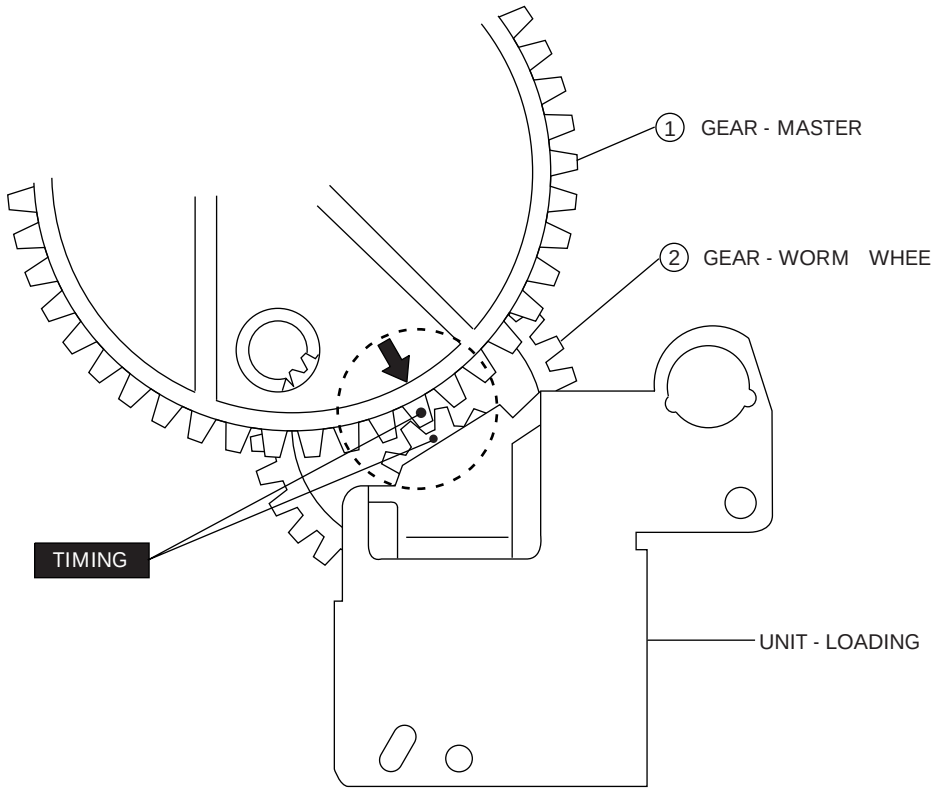


Fig. 1-43 Assembly of Gear Master

1-4-24 Unit Loading Removal

1. Remove 2 Screws ①.
2. Lift the Loading Unit ② in the direction of arrow.

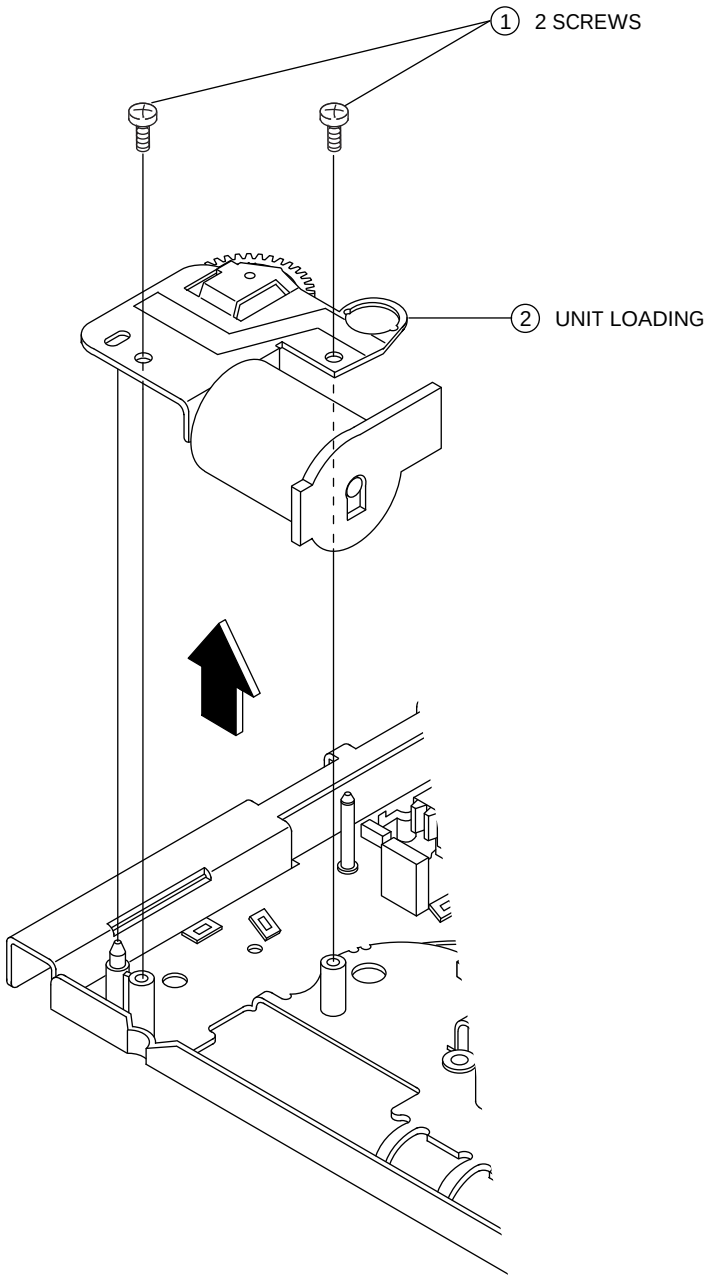


Fig. 1-44 Unit Loading Removal

1-4-25 Lever Slide Pinch Removal

1. Remove the Slit Washer ①.
2. Lift the Slide Lever Pinch ②.

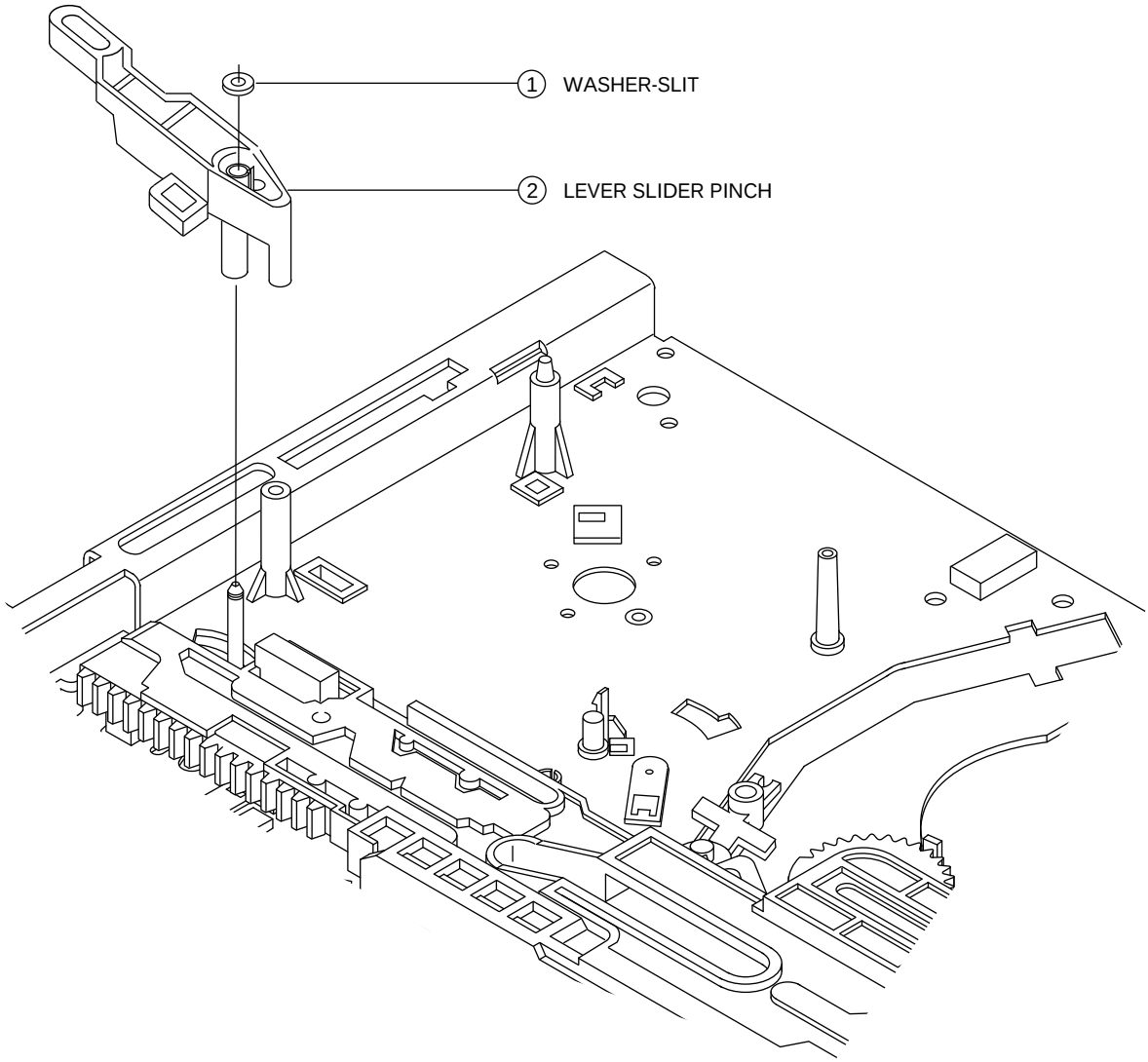


Fig. 1-45 Lever Slide Pinch Removal

1-4-26 Assembly of Lever Slide Pinch

1. Pull the Pinch Slide ① to the end in the direction of arrow.
2. Insert the Pinch Slide ① into the hole of Slide Lever Pinch ②. (Refer to detail "A")

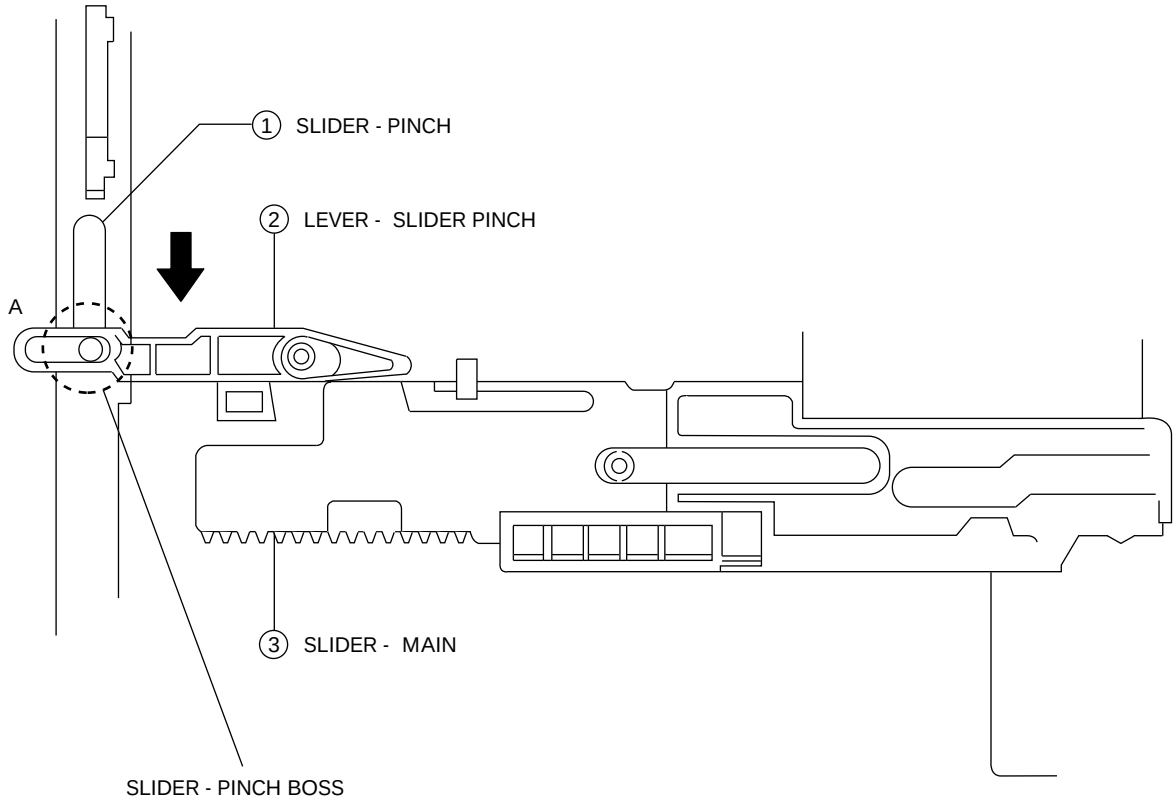


Fig. 1-46 Assembly of Lever Slide Pinch

1-4-27 Slide Main Removal

1. Remove the Slit Washer ①.
2. Release 3 tabs ②, ③, ④ in the direction of arrow.
3. Lift the Main Slide ⑤.

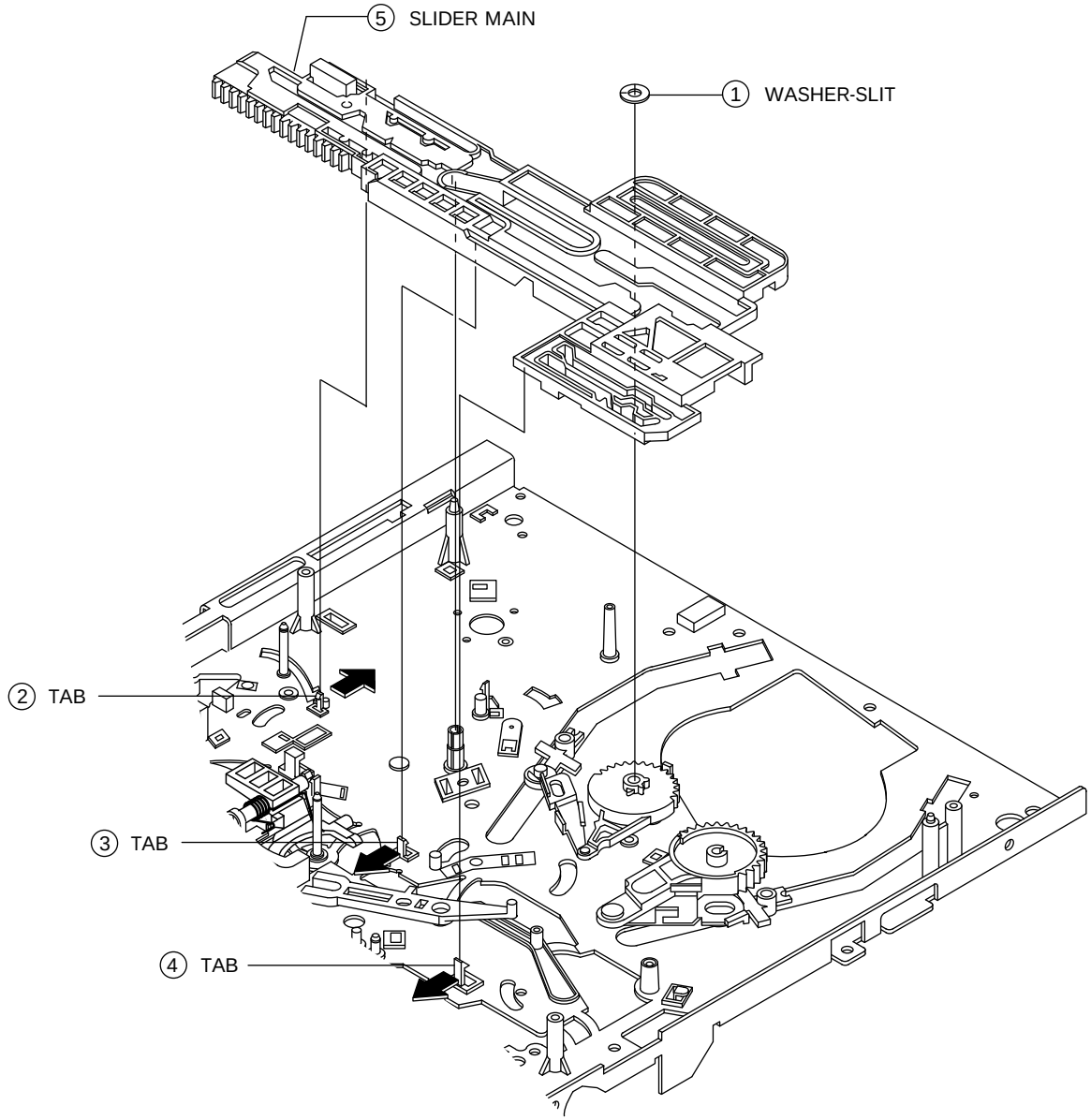


Fig. 1-47 Slide Main Removal

1-4-28 Assembly of Slide Main

1. Install the shaft of Loading "R" Gear Ass'y into the left of the Main Slide Hole and secure with the Slit Washer ②. (Refer to detail "A")
2. Insert the Tension Control Lever ③ and the Idler Change Lever ④ into the Main Slide Hole. (Refer to detail "B")
3. After confirming the above items 1, 2 install the Main Slide and secure with tabs (a, b, c).

Note : Be sure to assemble the Main Slide when the Loading L/R Gear Ass'y is in unloading position.

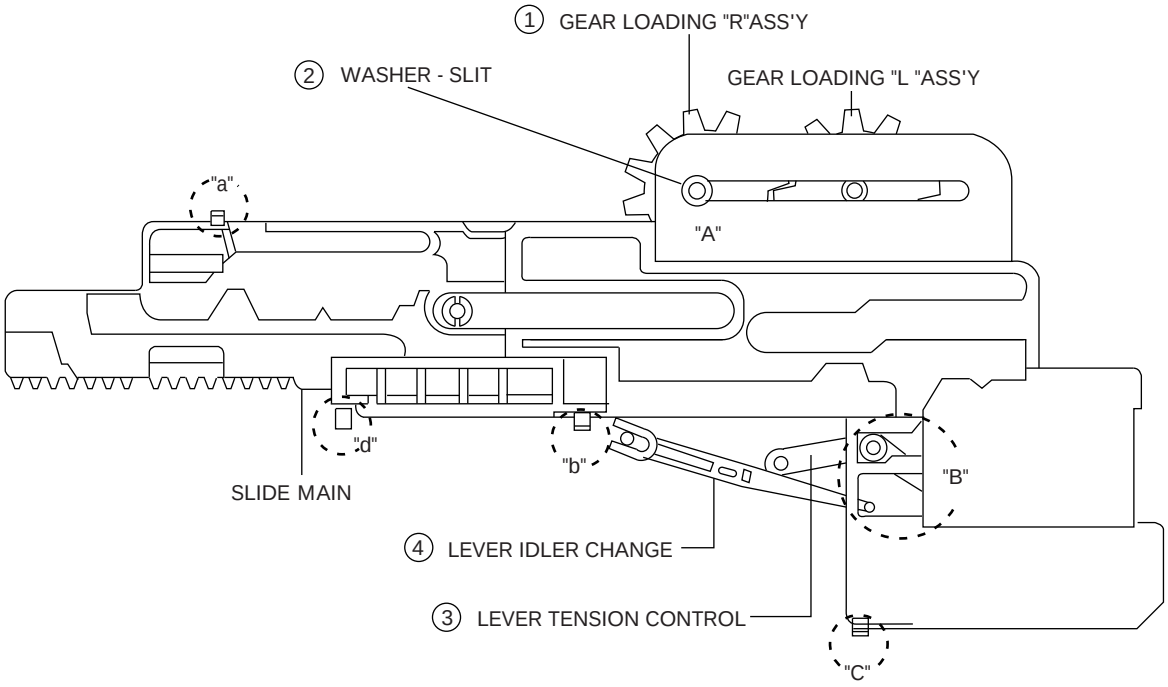


Fig. 1-48 Assembly of Slide Main

1-4-29 Lever Shift Ass'y Removal

1. Hang the Lever Shift Spring ① to the claw of the Shift Lever ③. (Refer to detail drawings A, B)
2. Release the tab ② in the direction of arrow.
3. Lift the Shift Lever ③.

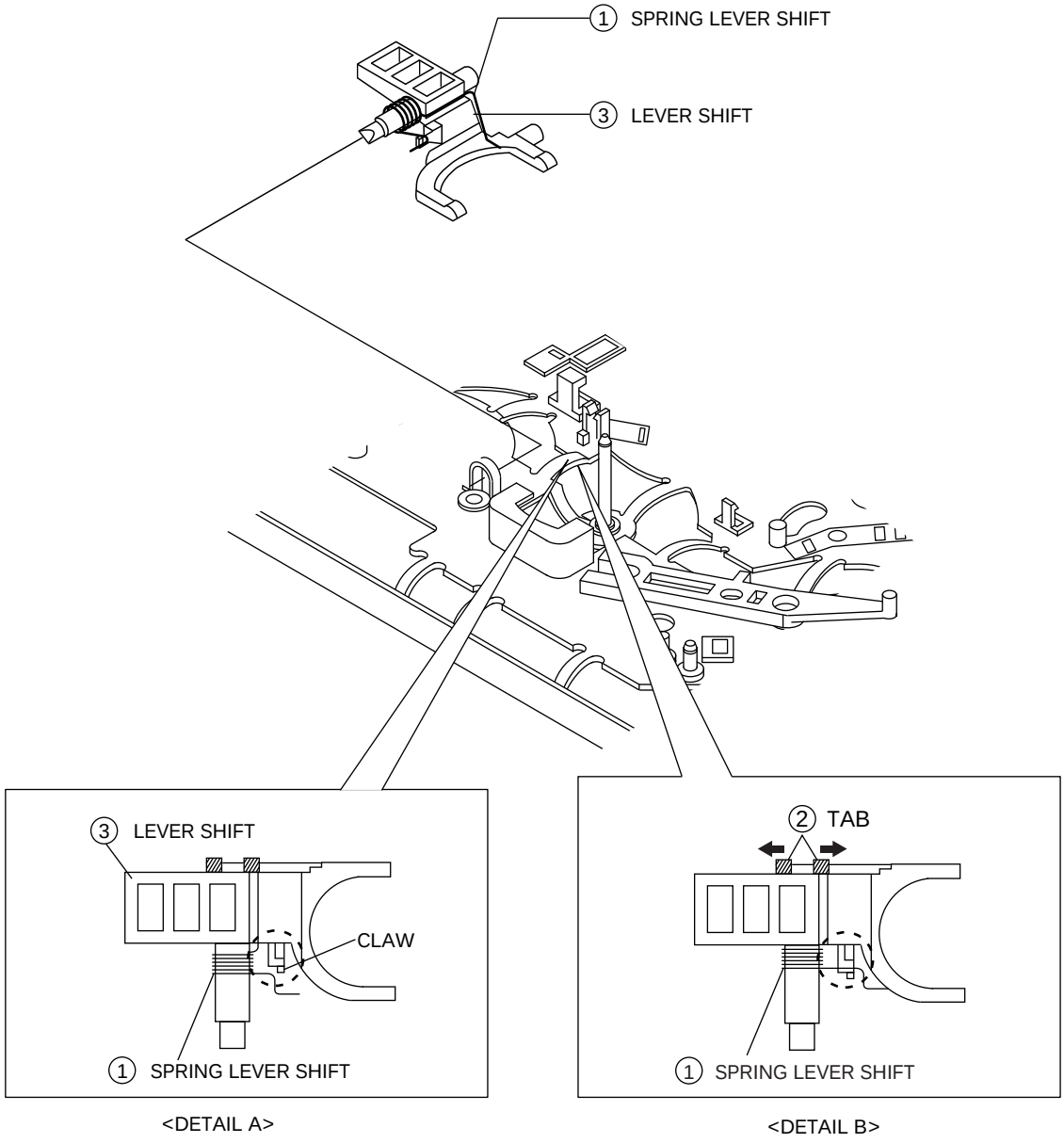


Fig. 1-49 Lever Shift Ass'y Removal

1-4-30 Lever Idler Change Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the lever Change Idler ②.

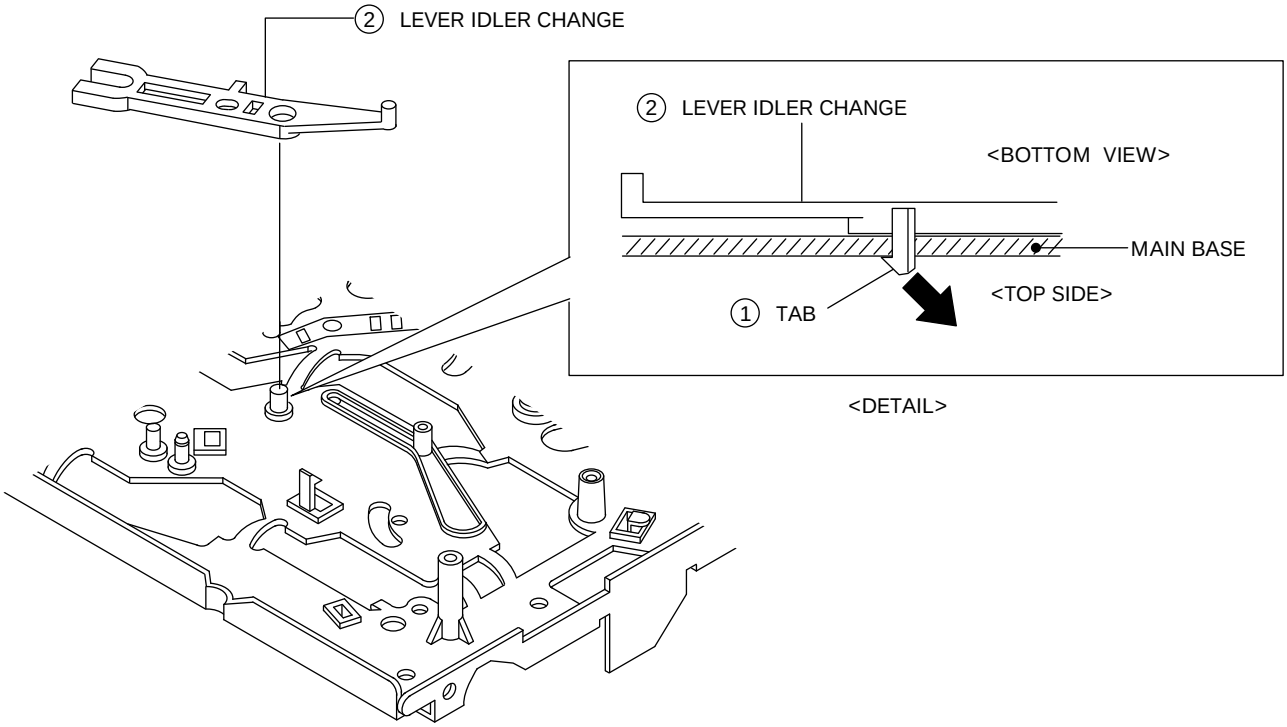


Fig. 1-50 Lever Idler Change Removal

1-4-31 Gear Loading “L”, “R” Ass’y Removal

1. Remove the Loading “R” Gear Ass’y ② from the Roller “T” Guide ③ by pushing the Loading “R” Spring ① in the direction of arrow. (Refer to detail drawing A)
2. Remove the Loading “L” Gear Ass’y ⑤ from the Roller “S” Guide ⑥ by pushing the Loading “L” Spring ④ in the direction of arrow. (Refer to detail drawing B)
3. Lift the Loading “R” Gear Ass’y ②.
4. Lift the Loading “L” Gear Ass’y ⑤ by pushing the tab ⑦ of the Loading “L” Gear Ass’y ⑤. (Refer to detail drawing C)

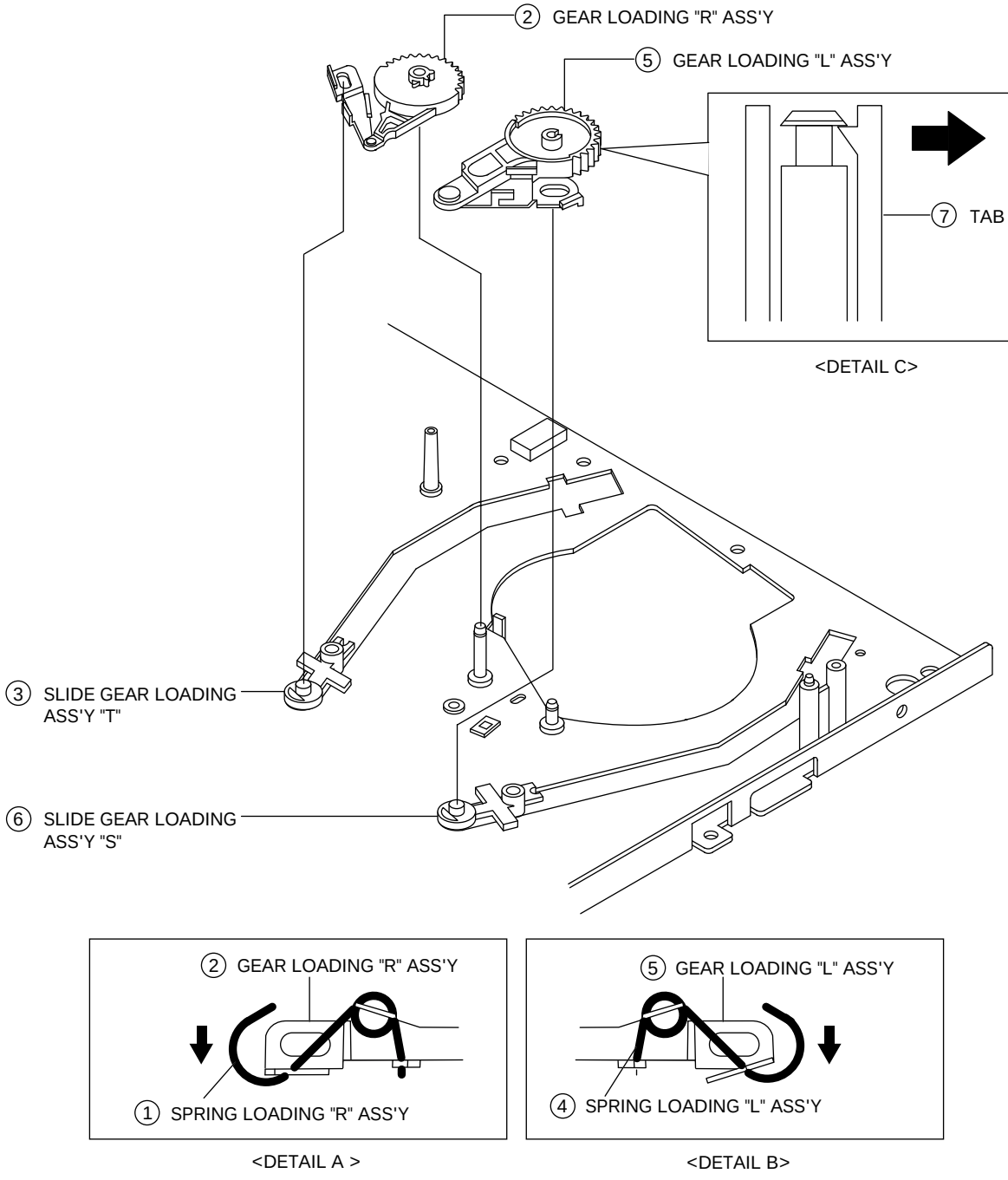


Fig. 1-51 Gear Loading “L”, “R” Ass’y Removal

1-4-32 Assembly of Gear Loading “L”, “R” Ass’y

1. When reinstalling, be sure to align 2 arrow as shown in Fig. 1-52. (Refer to timing point)

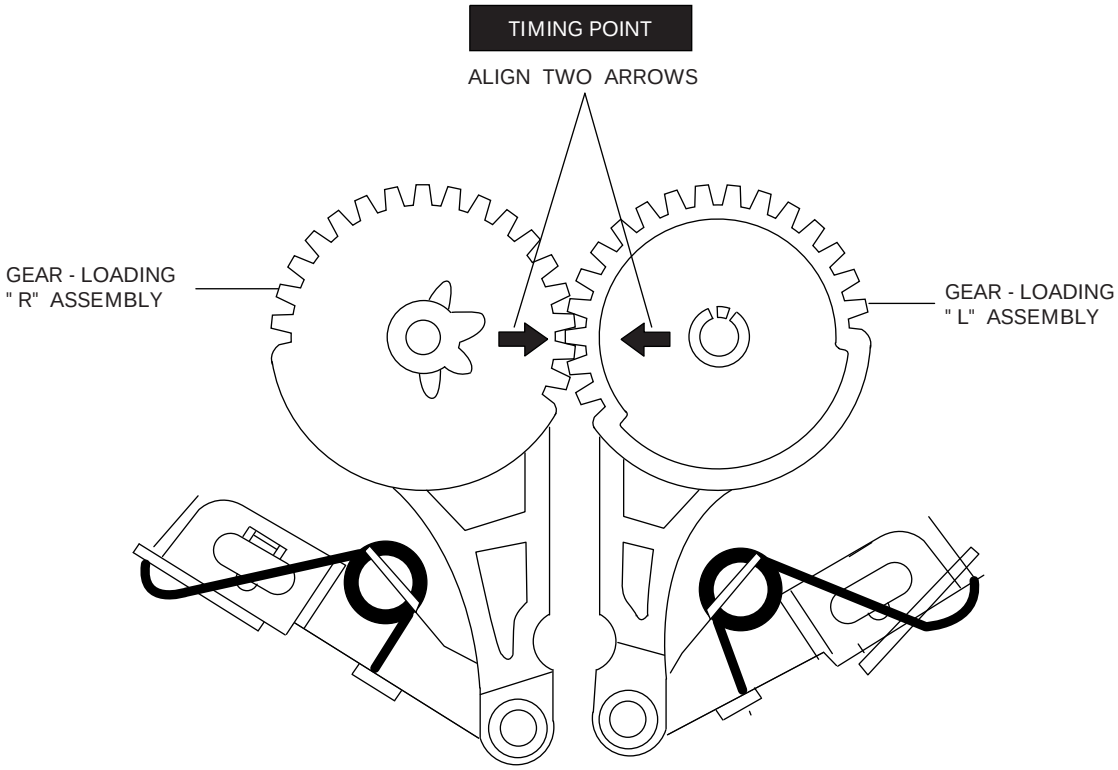


Fig. 1-52 Assembly of Gear Loading “L”, “R” Ass’y

1-4-33 Slide Pinch Removal

1. Push the tab ① in the direction of arrow “A”. (Refer to detail drawing)
2. Lift the Slide Pinch ② in the direction of arrow “B”.

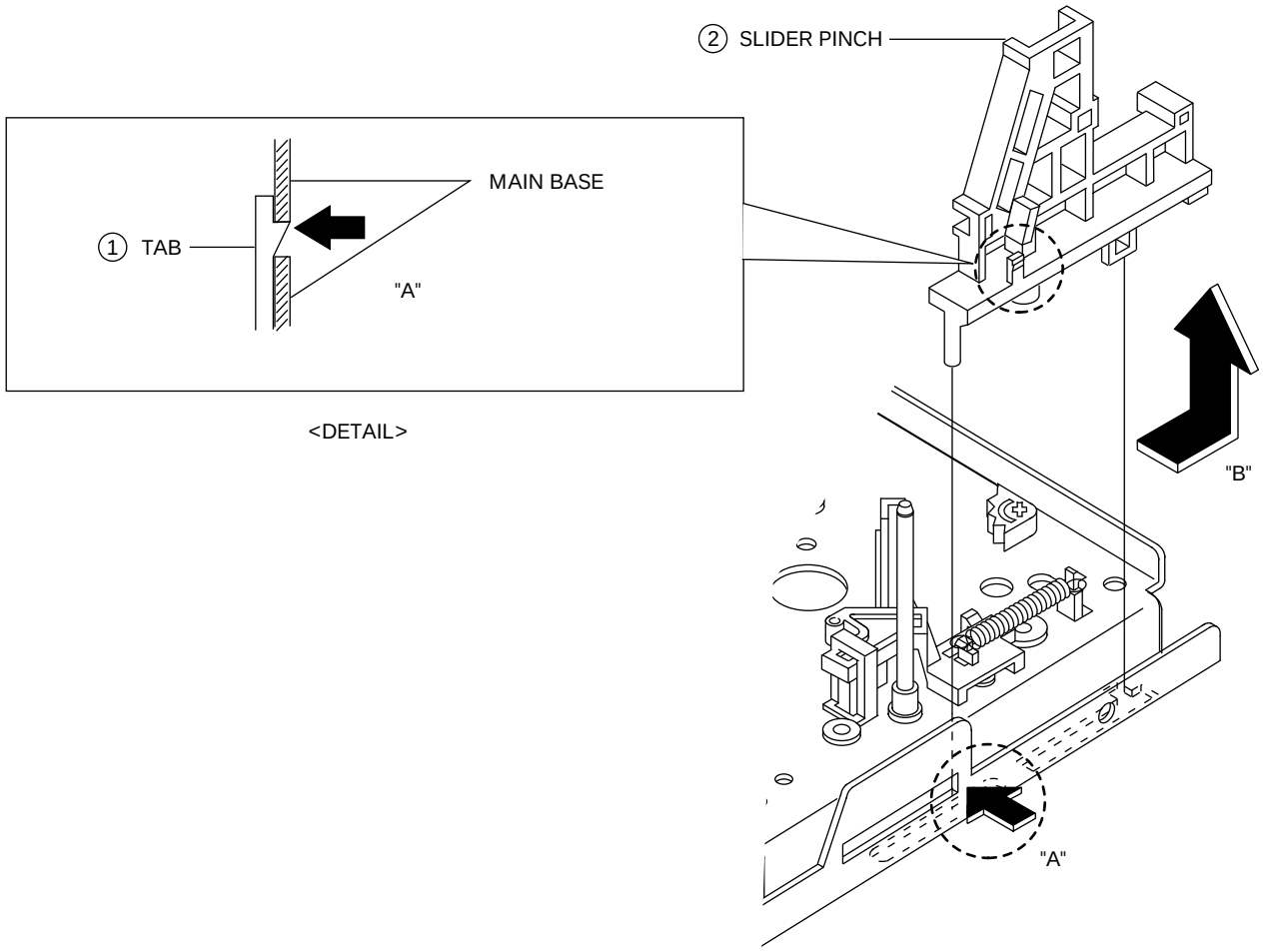
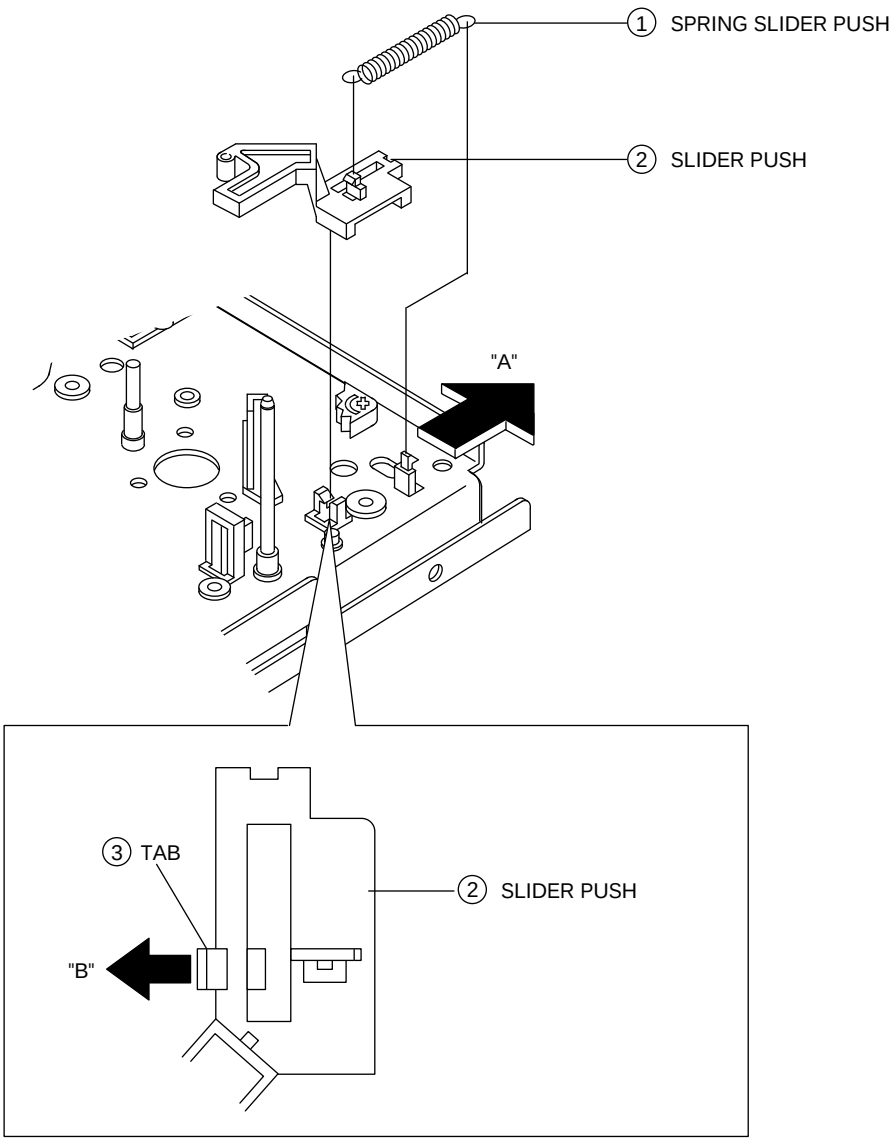


Fig. 1-53 Slide Pinch Removal

1-4-34 Slide Push Removal

1. Remove the Slide Push Spring ①.
2. Push the Slider ② in the direction of arrow “A”.
3. Lift the Push Slider ② by pushing the tab ③ in the direction of arrow “B”. (Refer to ditail drawing)

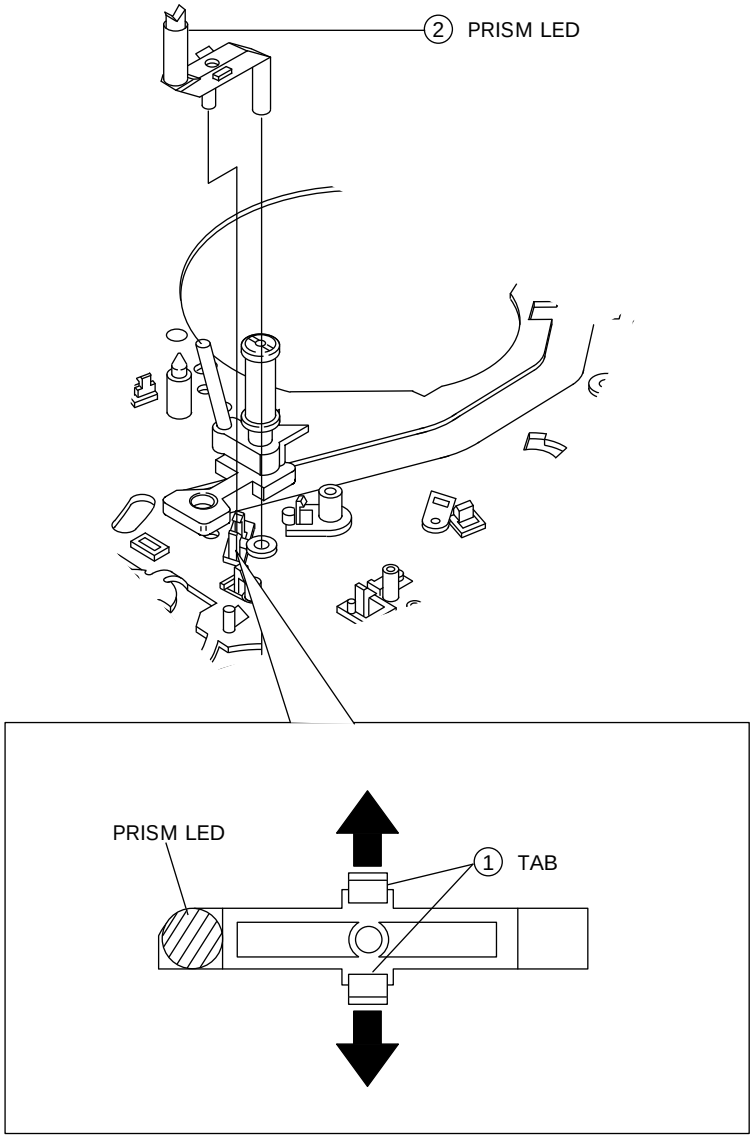


<DETAIL-TOP VIEW>

Fig. 1-54 Slide Push Removal

1-4-35 Prism LED Removal

1. Release the tab ① in the direction of arrow. (Refer to detail drawing)
2. Lift the LED Prism ②.



<DETAIL-TOP VIEW>

Fig. 1-55 Prism LED Removal

1-4-36 Lever Record Switch Removal

1. Remove the Record Switch Spring ①.
2. Release the tab ② in the direction of arrow. (Refer to detail drawing)
3. Lift the Record Switch Lever ③.

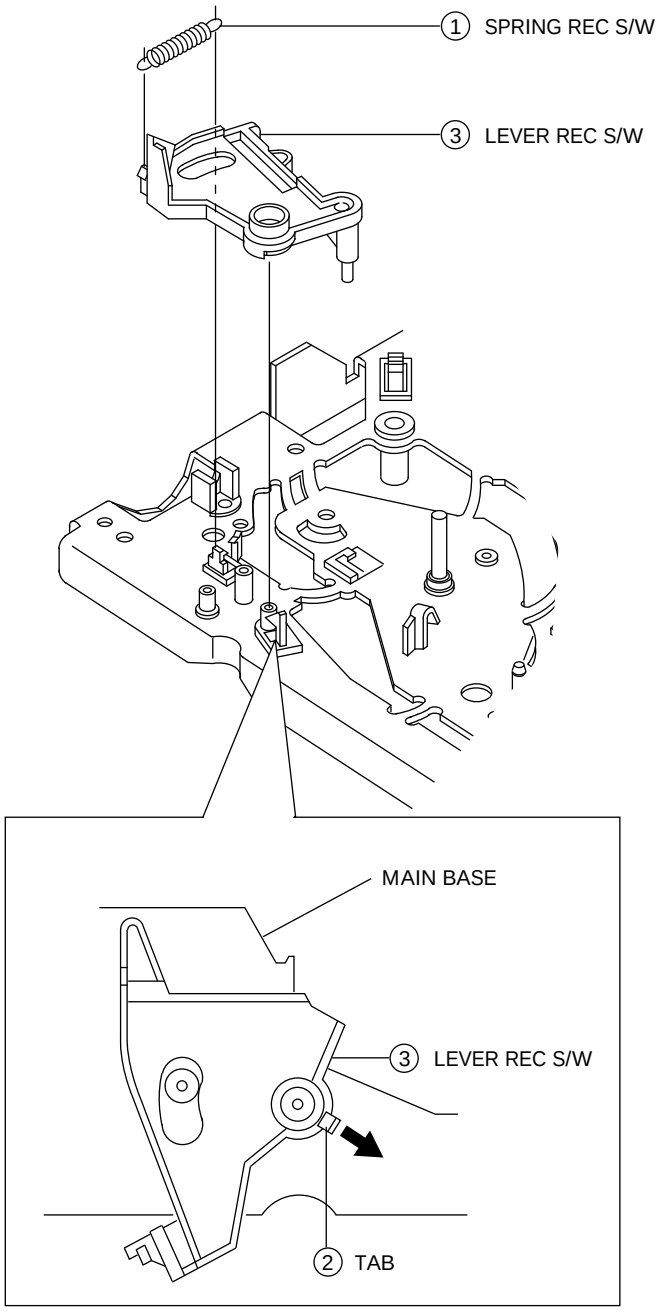


Fig. 1-56 Lever Record Switch Removal

1-4-37 Full Erase Head Removal

1. Remove 1 Screw ①.
2. Lift the F/E Magnet Head ②.

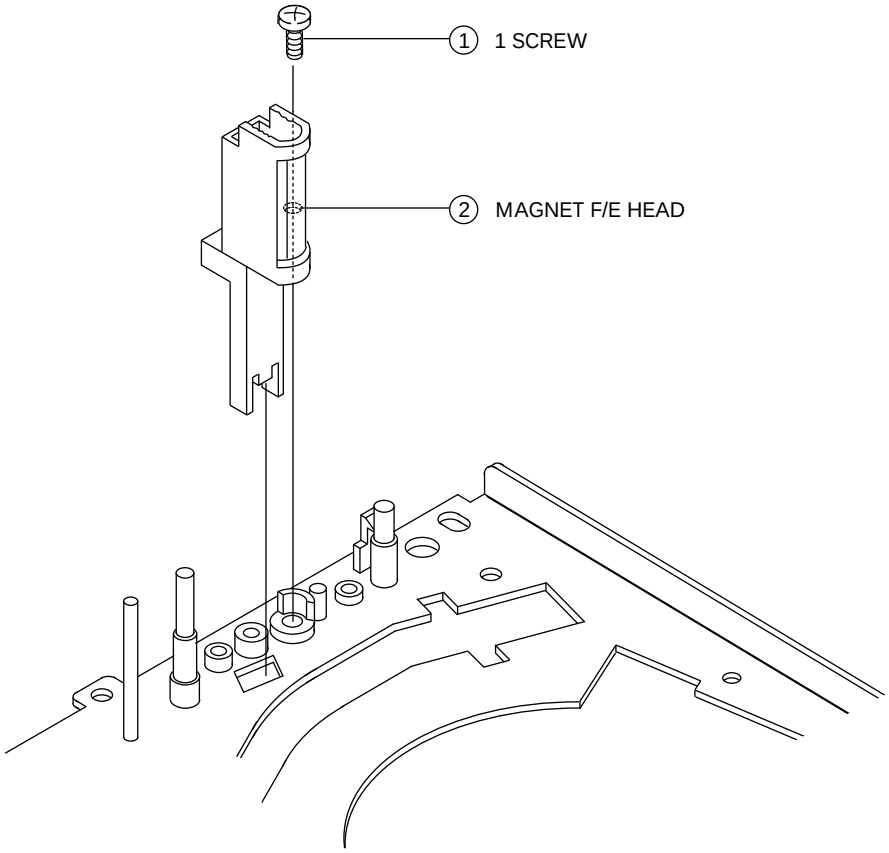


Fig. 1-57 Full Erase Head Removal

1-4-38 ACE Head Removal and Reassembly

1. Release the tab ① holding ACE Holder toward arrow. (Refer to detail drawing A)
2. Remove 1 Screw ②.
3. Lift the ACE Head Ass'y Magnet ③.

Assembly : When reinstalling, be sure to align the 3 teeth of X-Position adjustment gear with the 2 slot of ACE Head Base.

Note : When adjusting the X-Position adjustment gear using (+) driver, do not adjust by force.

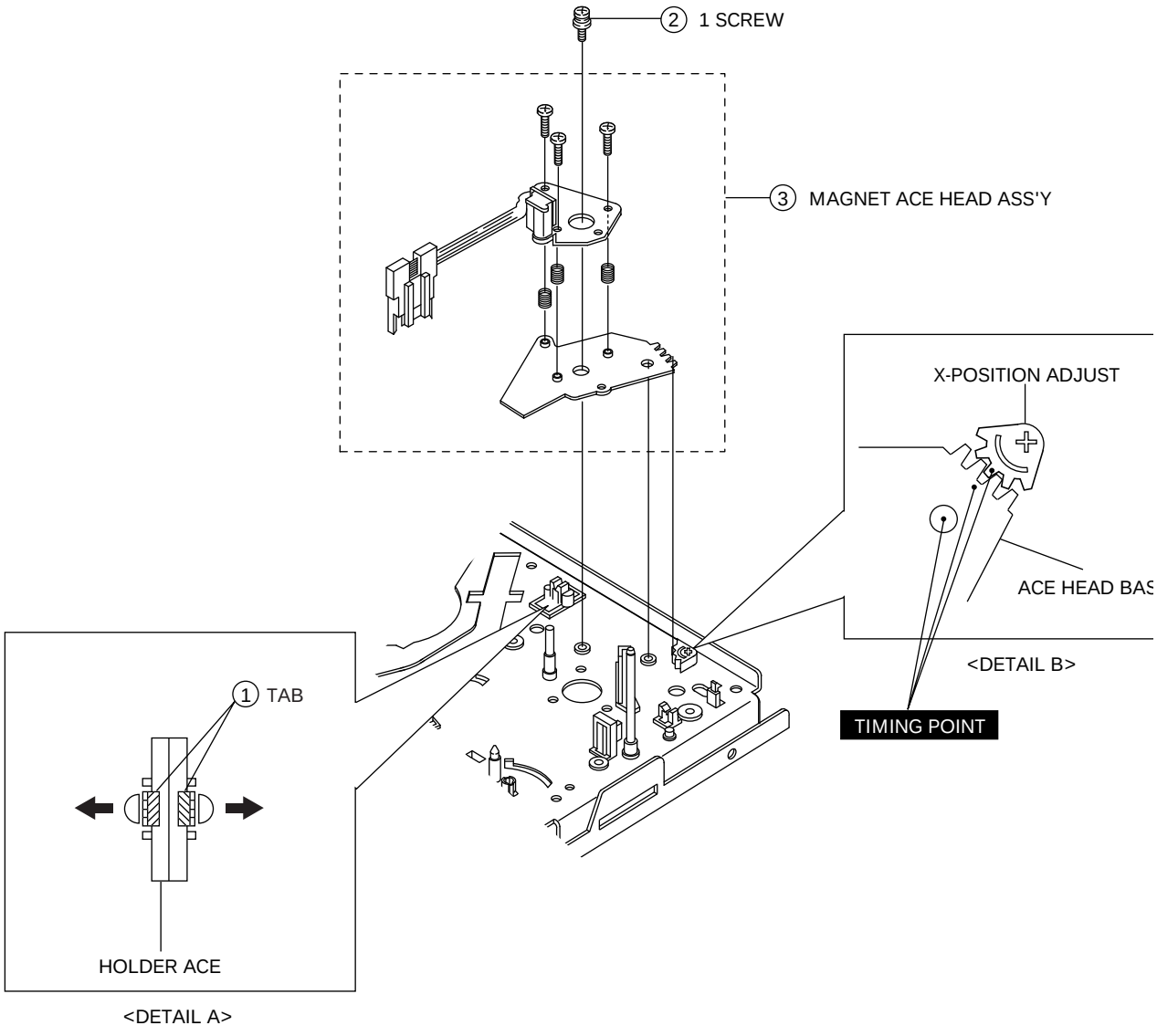


Fig. 1-58 ACE Head Ass'y Removal and Reassembly

1-4-39 Slide Guide Roller “S”, “T” Ass’y Removal

1. Remove the Cylinder Ass’y from the Main Base. (Refer to Fig. 1-12, 1-13, 1-14)
2. Remove the Slide “S”, “T” from the Loading “L”, “R” Gear Ass’y. (Refer to Fig. 1-52)
3. Move the Roller “S”, “T” Guide Ass’y to slot and then lift it to remove. (Refer to arrow)

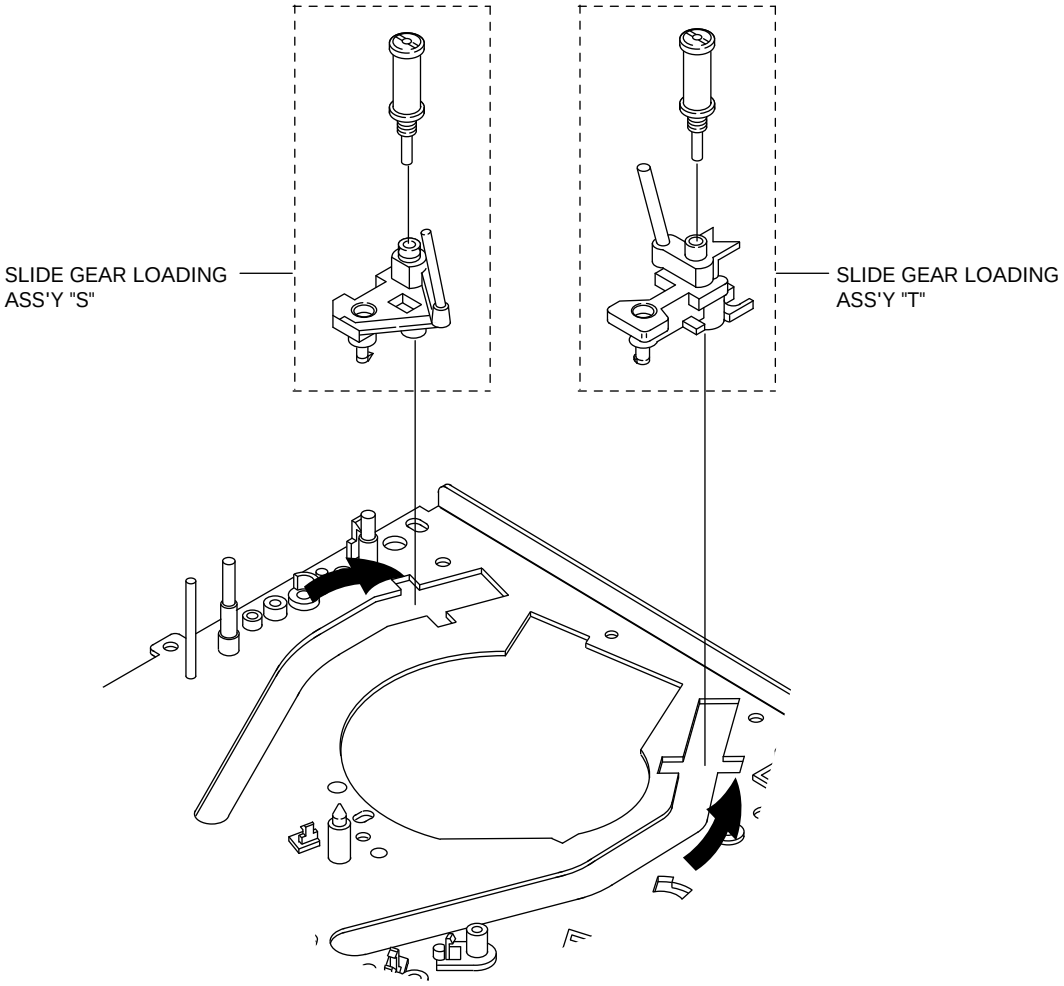


Fig. 1-59 Slide Guide Roller “S”, “T” Ass’y Removal

1-4-40 Assembly of Slide Guide Roller “S”, “T” Ass’y (When all parts except the Cylinder Ass’y are removed.)

1. Push 4 Lever Locks ① of the Housing Ass’y Simultaneously. (Refer to Fig. 1-60)
2. Push the Cassette Ass’y Holder ③ toward arrow “B” while turning the Master Gear ② toward arrow “A”. (Refer to Fig. 1-60)
3. Load the Loading L, R Gear Ass’y ④, ⑤ to the middle position of Guide Rail by turning the Master Gear ② toward arrow “A”. (Refer to Fig. 1-60, 1-61)
4. Install the Guide Roller S, T Slide ⑥, ⑦ into the Rail slot and then move it to the position of Loading Gear L, R Ass’y ④, ⑤. (Refer to Fig. 61)
5. Turn the Master Gear ② toward arrow “A”. (Eject mode)

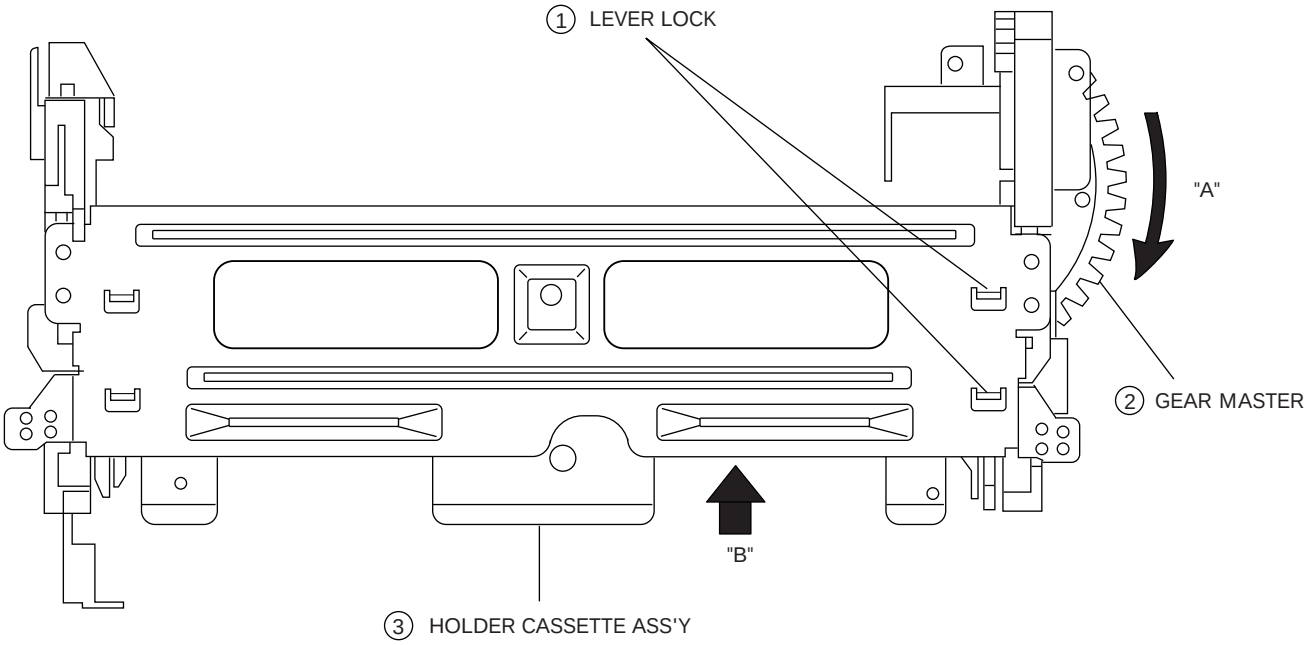


Fig.1-60 How to operate the Housing Ass’y

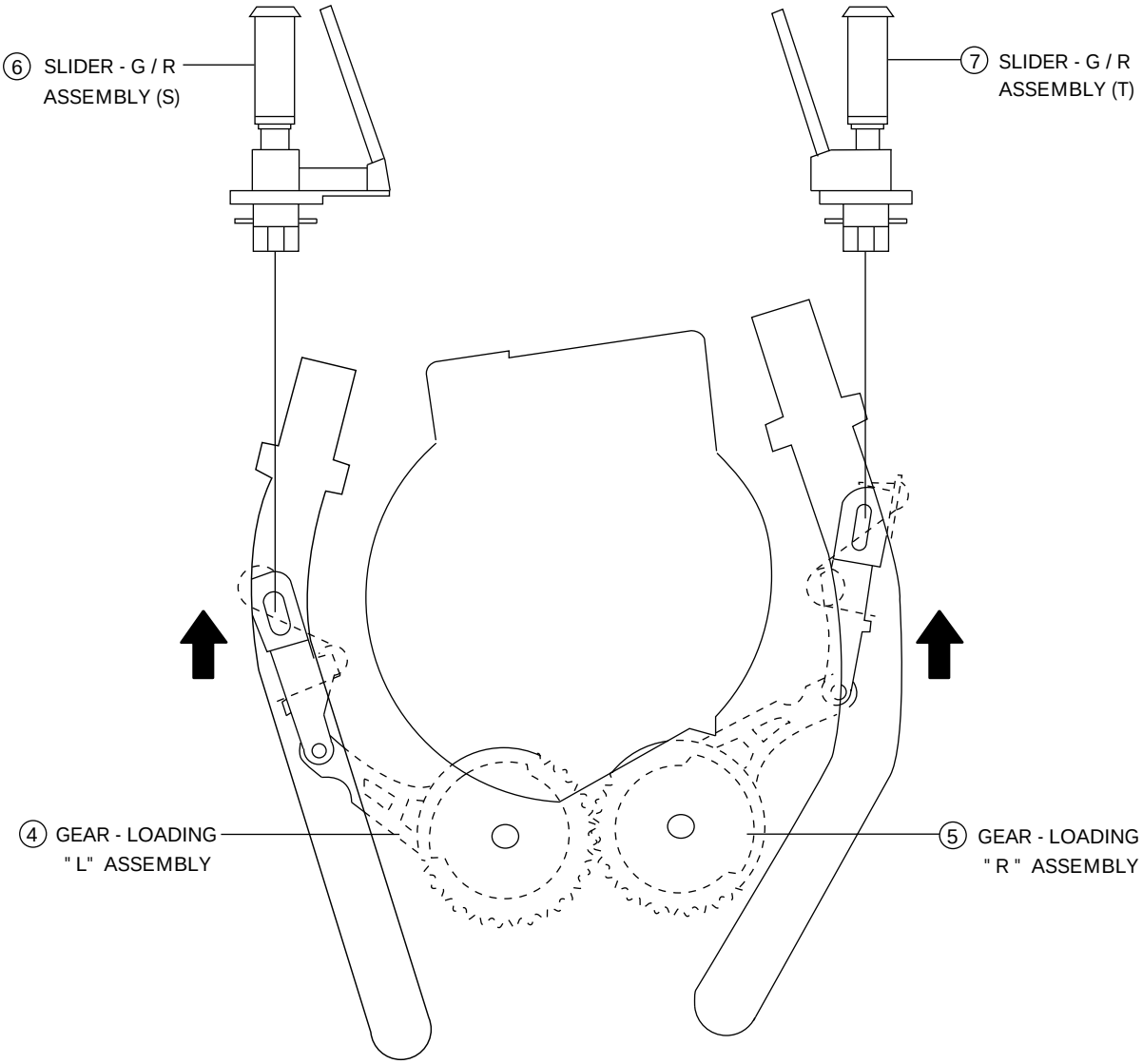


Fig. 1-61 Assembly of Slide Guide Roller “S”, “T” Ass’y

1-5 Cleaning and Lubrication

1-5-1 Cleaning Tape Mechanism

Periodic cleaning of the tape mechanism is necessary. To clean the following parts, use patch and solvent :

1. Capstan Shaft
2. All tape guide posts
3, Clutch Pulley
4. Pinch roller
5. Belt Capstan
6. Capstan Motor Pulley

1-5-2 Cleaning of Rotating and Stationary Heads

To clean video heads, full erase head, and the audio/control (A/C) head we recommend using a head cleaning kit and solvent.

Note : When cleaning video heads, move the cleaning stick in the direction of head rotation (wiping in a vertical direction may damage the heads.)

Press a chamois cloth which has been dipped in cleaning fluid lightly against the rotating Cylinder Ass'y. Clean slowly by rotating the Upper Cylinder Ass'y by hand.

Note : Never turn the Motor on when cleaning.

1-5-3 Lubrication of Tape Mechanism

The tape transport mechanism is properly lubricated at the factory. In normal use cycles, and with average environmental conditions, additional lubrication should not be required during the first year of operation.

Depending on the frequency of use and environmental conditions, periodic lubrication may be required. When lubricating, first remove the old lubricant, then sparingly apply new lubricant. Excessive lubricant is transferred to other assemblies, malfunction will result.

Use grease on the following parts every 1,000 hours. (See exploded view for location) :

1. Between base pole assembly (L, R) and main base
2. Gear Loading L, R
3. Slide Main
4. Lever Shift
5. Gear Master
6. Lever Slide Pinch
7. Pinch Roller
8. Slide Pinch
9. Base Cylinder

Oil may be required for the following parts after 1,000 hours. (See exploded view for location) :

Main Base
1. Arm Tension molding
2. Shaft Reel Disk L, R
3. Shaft Gear Relay S, T
4. Shaft Idler
5. Shaft Clutch

Other parts which are not listed above do not require lubrication, except when parts are replaced.
Use appropriate oil or grease as indicated on the exploded view.

THE ASSEMBLY PROCEDURES OF DECK PARTS

NO	DESCRIPTION	SUBPARTS	LOCATE	REMARK
1	BASE MAIN ASS'Y	GREASE	TOP VIEW	
2	MOTOR D.D CAPSTAN	3 SCREWS	TOP VIEW	
3	LEVER JOG ASS'Y	1 SCREW	TOP VIEW	DX8-A/DX8-AC
4	GEAR RELAY "S" ASS'Y	1 WASHER SLIT	TOP VIEW	
5	GEAR RELAY "T" ASS'Y	1 WASHER SLIT	TOP VIEW	
6	IDLER ASS'Y	1 WASHER SLIT	TOP VIEW	
7	REEL DISK "L" ASS'Y	1 WASHER PLAIN	TOP VIEW	
8	REEL DISK "R" ASS'Y	1 WASHER PLAIN	TOP VIEW	
9	ARM TENSION FULL ASS'Y		TOP VIEW	
10	SLIDE G/R ASS'Y (S)		TOP VIEW	
11	SLIDE G/R ASS'Y (T)		TOP VIEW	
12	SLIDE PUSH		TOP VIEW	
13	SLIDER PINCH	GREASE	TOP VIEW	
14	GEAR LOADING "L" ASS'Y		BOTTOM VIEW	
15	GEAR LOADING "R" ASS'Y		BOTTOM VIEW	
16	LEVER IDLER CHANGE		BOTTOM VIEW	
17	LEVER SHIFT ASS'Y	SPRING GUIDE	BOTTOM VIEW	
18	SLIDER MAIN	1 WASHER SLIT	BOTTOM VIEW	
19	LEVER SLIDER PINCH	1 WASHER SLIT	BOTTOM VIEW	
20	CLUTCH ASS'Y	1 WASHER SLIT, PLAIN	BOTTOM VIEW	
21	BRAKE CAPSTAN ASS'Y		BOTTOM VIEW	
22	SPRING BRAKE CAPSTAN		BOTTOM VIEW	
23	UNIT LOADING	2 SCREWS	BOTTOM VIEW	
24	GEAR MASTER	1 WASHER SLIT	BOTTOM VIEW	
25	BELT CAPSTAN		BOTTOM VIEW	
26	LEVER REVIEW		TOP VIEW	
27	ARM REVIEW ASS'Y		TOP VIEW	
28	LEVER PINCH CAM		TOP VIEW	
29	LEVER PINCH COMP ASS'Y		TOP VIEW	
30	SPRING ARM PINCH		TOP VIEW	
31	UNIT PINCH ROLLER	1 WASHER SLIT	TOP VIEW	
32	BRAKE MAIN "L" ASS'Y		TOP VIEW	
33	BRAKE MAIN "R" ASS'Y		TOP VIEW	
34	SPRING BRAKE MAIN		TOP VIEW	
35	BRAKE SUB "L" ASS'Y		TOP VIEW	
36	BRAKE SUB "R" ASS'Y		TOP VIEW	
37	SPRING BRAKE SUB "L"		TOP VIEW	
38	SPRING BRAKE SUB "R"		TOP VIEW	

NO	DESCRIPTION	SUBPARTS	LOCATE	REMARK
39	PRISM LED		TOP VIEW	
40	SLIDER RACK HOUSING		TOP VIEW	
41	LEVER REC S/W		TOP VIEW	
42	SPRING REC S/W		TOP VIEW	
43	SPRING TENSION		TOP VIEW	
44	SPRING SLIDE PUSH		TOP VIEW	
45	MAGNET ACE HEAD ASS'Y	1 SCREW	TOP VIEW	
46	HOUSING ASS'Y	3 SCREWS	TOP VIEW	
47	CYLINDER ASS'Y	3 SCREWS	TOP VIEW	
48	MAGNET F/E HEAD	1 SCREW	TOP VIEW	
49	STOPPER TAPE		TOP VIEW	DX7-A/DX8-A
	HEAD CLEANER ASS'Y		TOP VIEW	DX7-AC/DX8-AC

Note: Stopper tape has deleted from JAN.1998

MEMO

2. Alignment and Adjustment

2-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following :
1. Noise observed on the screen.
2. Tape damage.
3. Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment.
To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

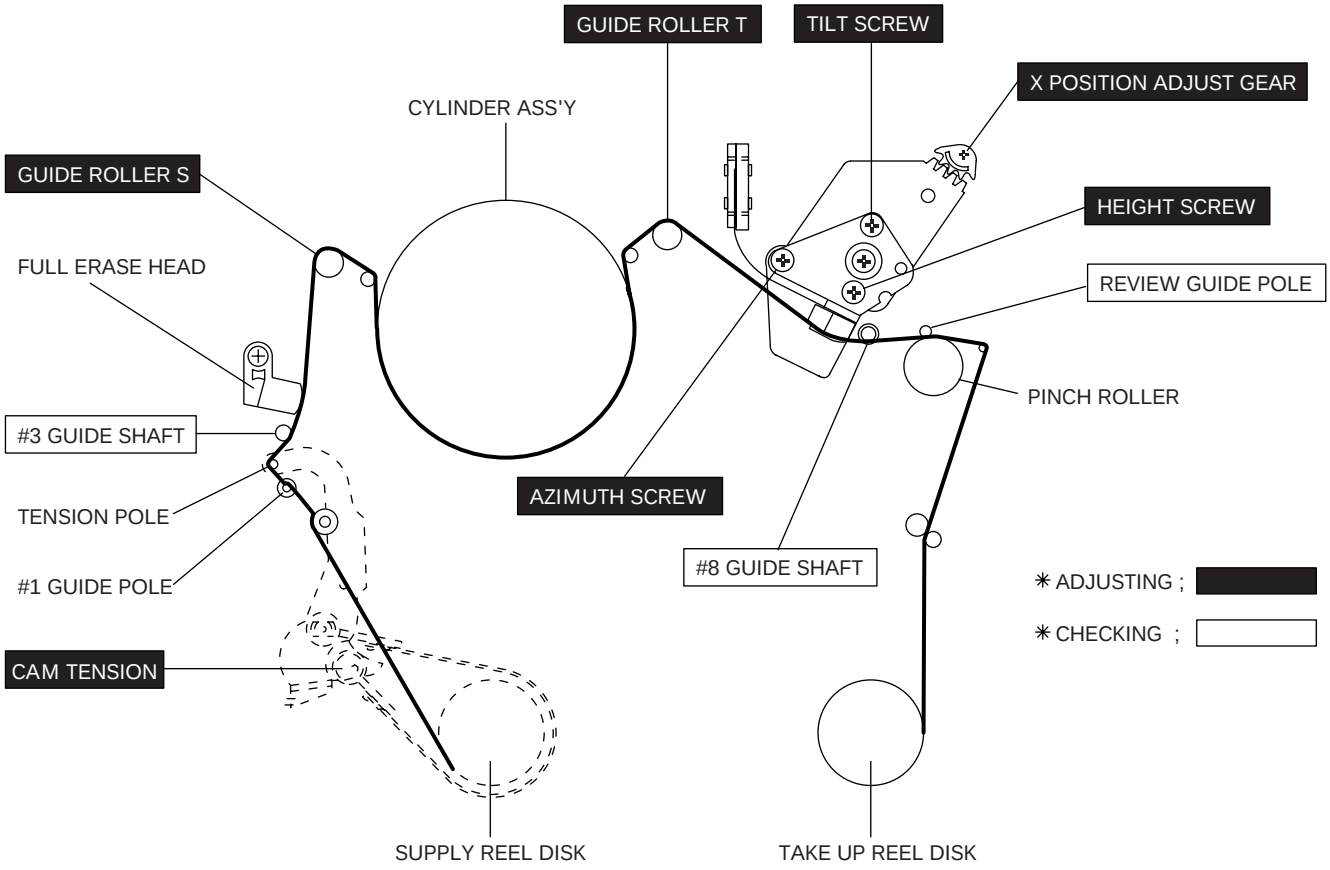


Fig. 2-1 Location of Tape Transport Adjustment

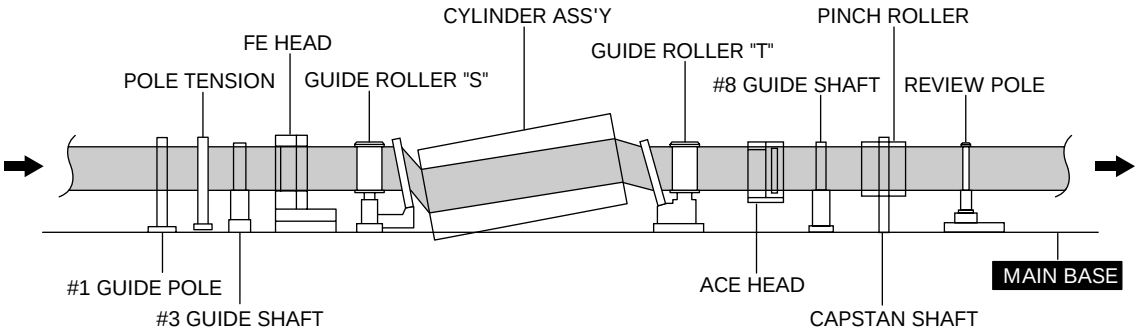


Fig. 2-2 Tape Travel Diagram

2-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to precedures for the tape transport system. If there are any changes to the tape path, first run a T-120 (E-180) tape and make sure excessive tape wrinkle does not occur at the tape guides.

1. If tape wrinkle is observed at the S, T-guide rollers, turn the S, T-guide rollers until wrinkle disappears.
2. If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the A/C head.
   (See page 5-1 of the Service Manual for Test Point Locations.)

2-2-1 A/C Head Assembly Adjustment

2-2-1 (a) A/C HEAD HEIGHT ADJUSTMENT

1) Run the alignment tape (Color bar) in the playback mode.
2) Observe surface of the audio head using a dental mirror.
3) Turn screw (A), (B), (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer to Fig. 2-3 and 2-4)

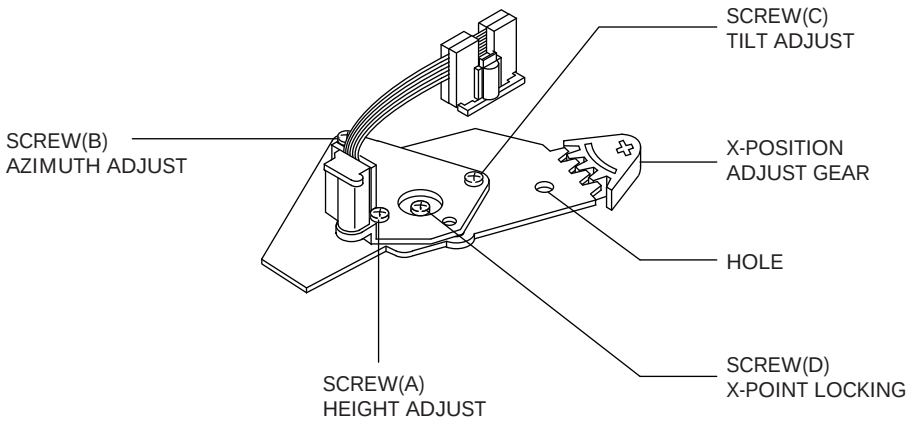


Fig. 2-3 Location of A/C Head Adjustment Screw

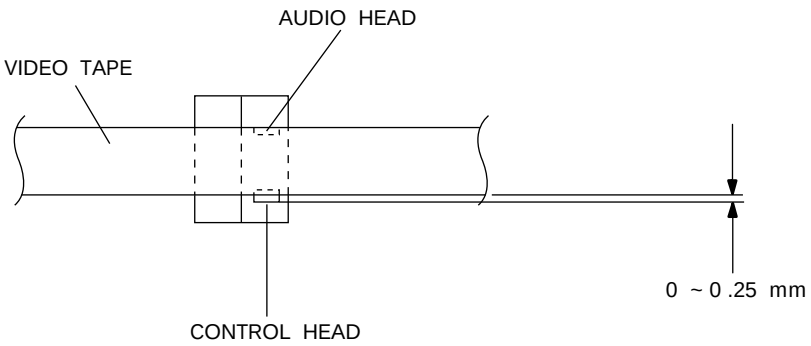


Fig. 2-4 A/C Head Height Adjustment

2-2-1 (b) A/C HEAD TILT ADJUSTMENT

1. Playback a T160 (E-240) tape and observe the position of the tape at the lower flange of tape guide.
2. Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig.2- 5 (B)
3. If a curl or wrinkle of the tape occurrs, slightly turn the screw (C) tilt adjust on the A/C Head ass'y.
4. Reconfirm the A/C head height.

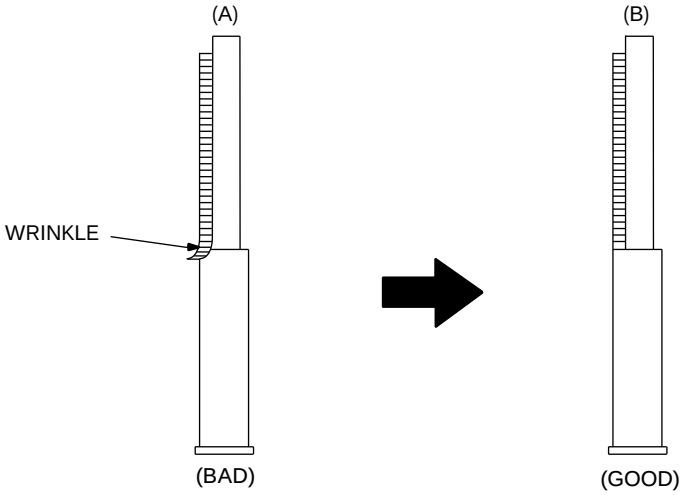


Fig. 2-5 Tape Guide Check

2-2-1 (c) AUDIO AZIMUTH ADJUSTMENT

1. Load alignment tape (Mono scope) and playback the NTSC : 7KHz (PAL : 6KHz) signal.
2. Connect channel-1 scope probe to audio output test point.
3. Adjust screw (B) to achieve maximum audio level. (See Fig. 2-3)

2-2-1 (d) A/C HEAD POSITION (X-POINT) ADJUSTMENT

1. See page 5-2 of the Service Manual for A/C Head position (X-Point) adjustment.

2-2-2 Linearity adjustment (S, T-guide rollers adjustment)

1. Playback the Mono Scope alignment tape (SP mode).
2. Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
3. Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 2-6.
   If it does not, adjust as follows :

Note : a=Maximum output of the video RF envelope.
b=Minimum output of the video RF envelope at the entrance side.
c=Minimum output of the video RF envelope at the center point.
d=Maximum output of the video RF envelope at the exit side.

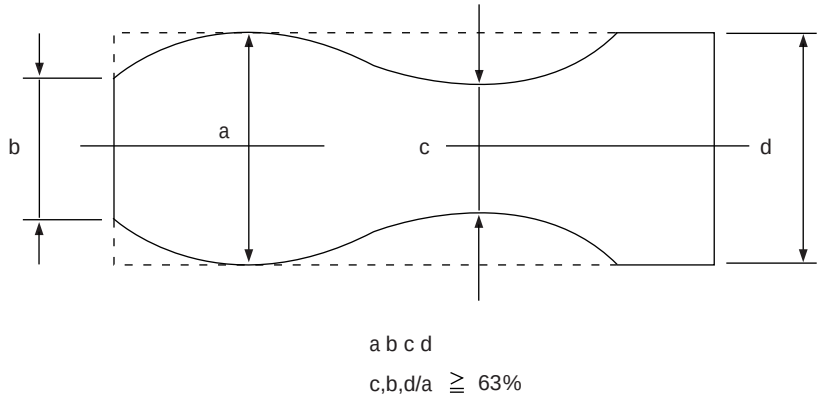


Fig. 2-6 Envelope Waveform Adjustment

4. If the section A in Fig. 2-7 does not meet the specification, adjust the S-guide roller up or down.
5. If the section B in Fig. 2-7 does not meet the specification, adjust T-guide roller up or down.

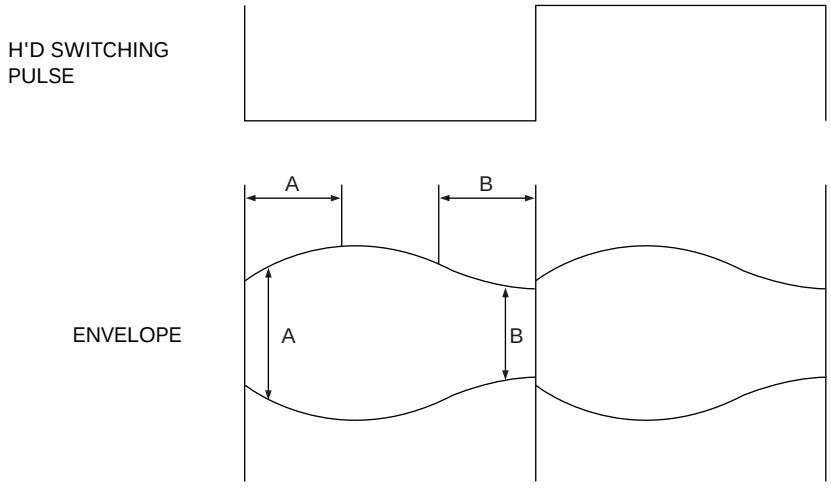


Fig. 2-7 Adjustment Points

6. Play back the Mono Scope alignment tape (SP mode).
7. Connect an oscilloscope CH-1 to the Envelope and CH-2 to the H'D SW Pulse for triggering.
8. Turn the guide roller heads with a flat head (▬) driver to obtain a flat video RF envelope as shown in Fig. 2-8.
9. After the adjustment is completed, tighten the set screws.

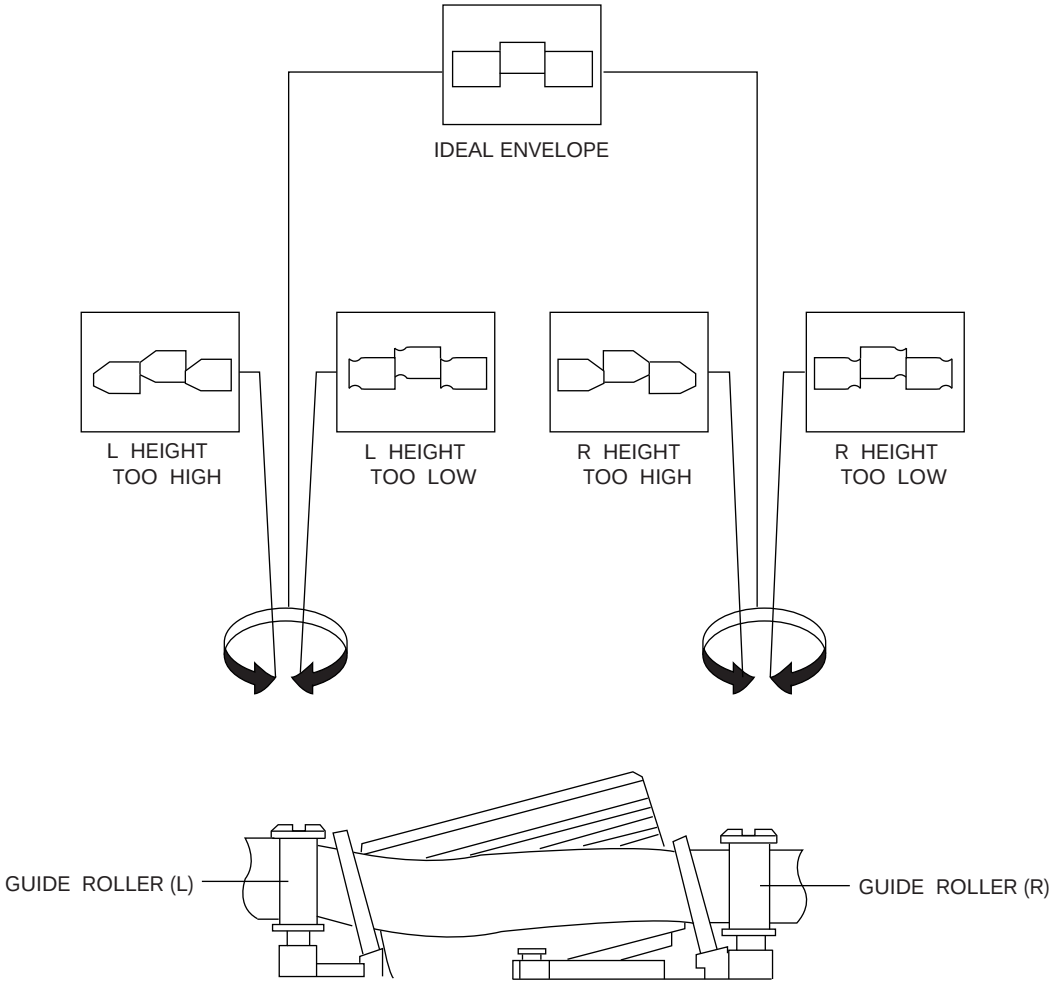


Fig. 2-8 S, T-Guide Roller Height Adjustment

2-2-3 Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode : Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 2-9). If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows :

1. Make sure there is no gap between the supply roller lower flange and the tape.
   If there is a gap, adjust the supply guide roller again.
2. Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 second.

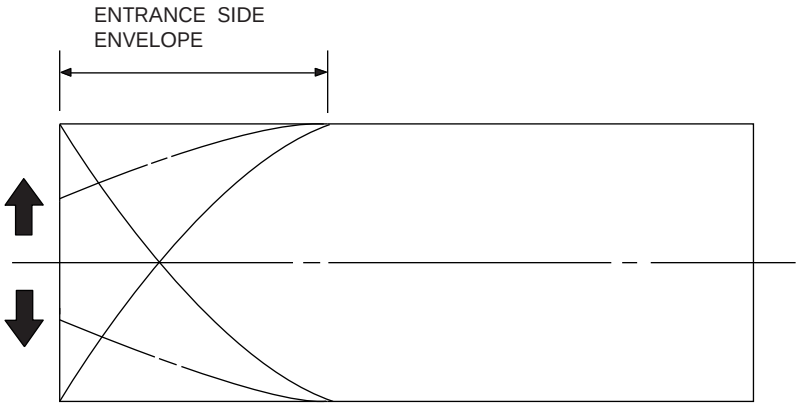


Fig. 2-9 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

2-2-4 Envelope Check

1. Make recordings on T-120 (E-120) and T-160 (E-180) tape. Make sure the playback output envelope meets the specification as shown in Fig. 2-10.
2. Play back a self recorded tape (recording made on the unit using with T-120, E-120). The video envelope should meet the specification as shown in Fig. 2-10. In SP mode, (A) should equal (B).
   If the head gap is wide, upper cylinder should be checked.

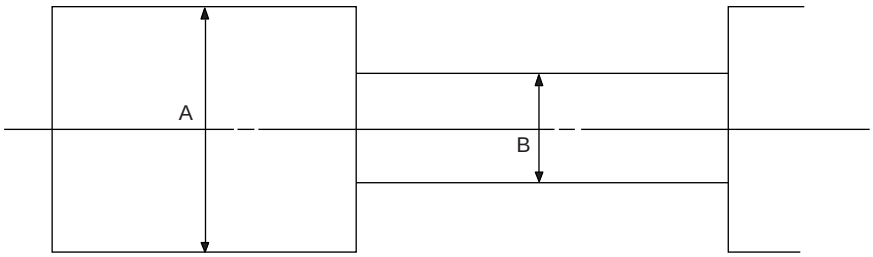


Fig. 2-10 Envelope Output and Output Level

2-2-5 Tape Wrinkle Check

1. Run the T-160 (E-240) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
2. If excessive tape wrinkle is observed, perform the following adjustments in Playback mode :

- Tape wrinkle at the S, T-guide roller section : Linearity adjustment.
- Tape wrinkle at tape guide flange : A/C head assembly coarse adjustment.

2-3 Reel Torque

2-3-1 Reel Torque

1. The rotation of the capstan motor drives the clutch ass'y through the capstan motor belt.
2. Brake operation and shift operation in FF/REW are done by a leverslide.
3. Transportation of accurate driving force is done by gears (clutch ass'y).

Note : If the spec does not meet the followings specifications, replace the clutch ass'y and then recheck.

MODE	TORQUE g/cm	GAUGE
PB/REC	100 ± 30	Cassette Torquemeter
RPS	170 ± 30	Cassette Torquemeter
FF/REW	Minimum 600	Torque Gauge

2-3-2 Location of Tension Pole and Back Tension Adjustments

1. Remove the housing ass'y and set the deck to "PLAY" mode.
2. Adjust the tension cam to 0 ~ -0.5mm from the center of supply roller.
3. The back tension meter should read 41 ~ 51g.cm. (PAL : 40 ~ 47g.cm)

Counterclockwise : Torque UP
Clockwise : Torque DOWN

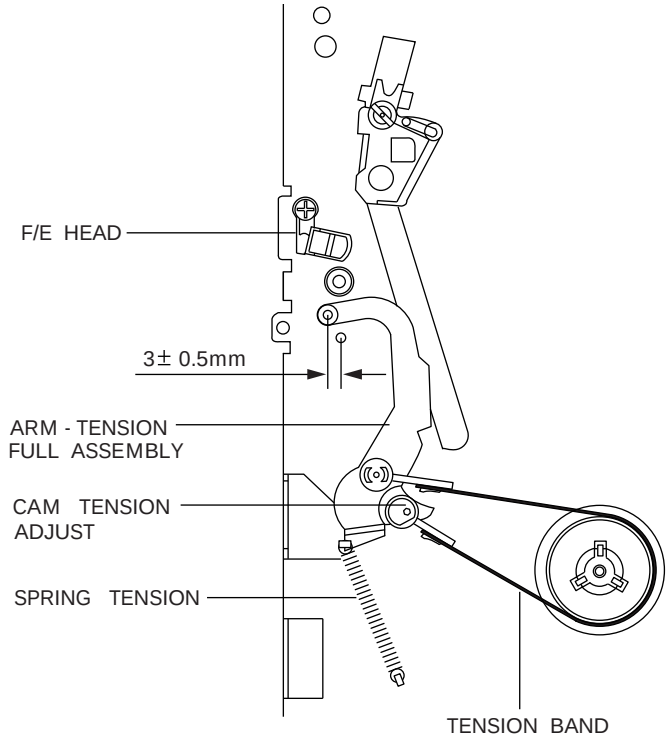


Fig. 2-11 Tension Pole and Back Tension Adjustment

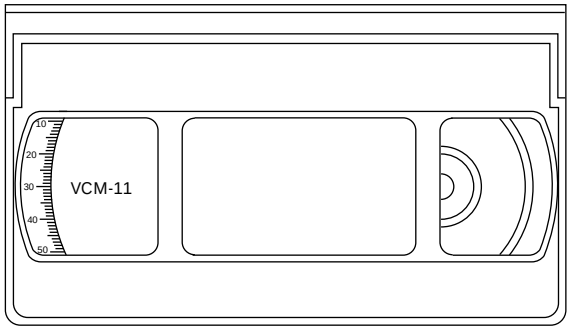


Fig. 2-12 Back Tension Tape Torque Cassette